

**STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF FISH AND GAME**

FISH BULLETIN 163

**CALIFORNIA MARINE FISH
LANDINGS FOR 1973**

by

ROBERT McALLISTER



1975

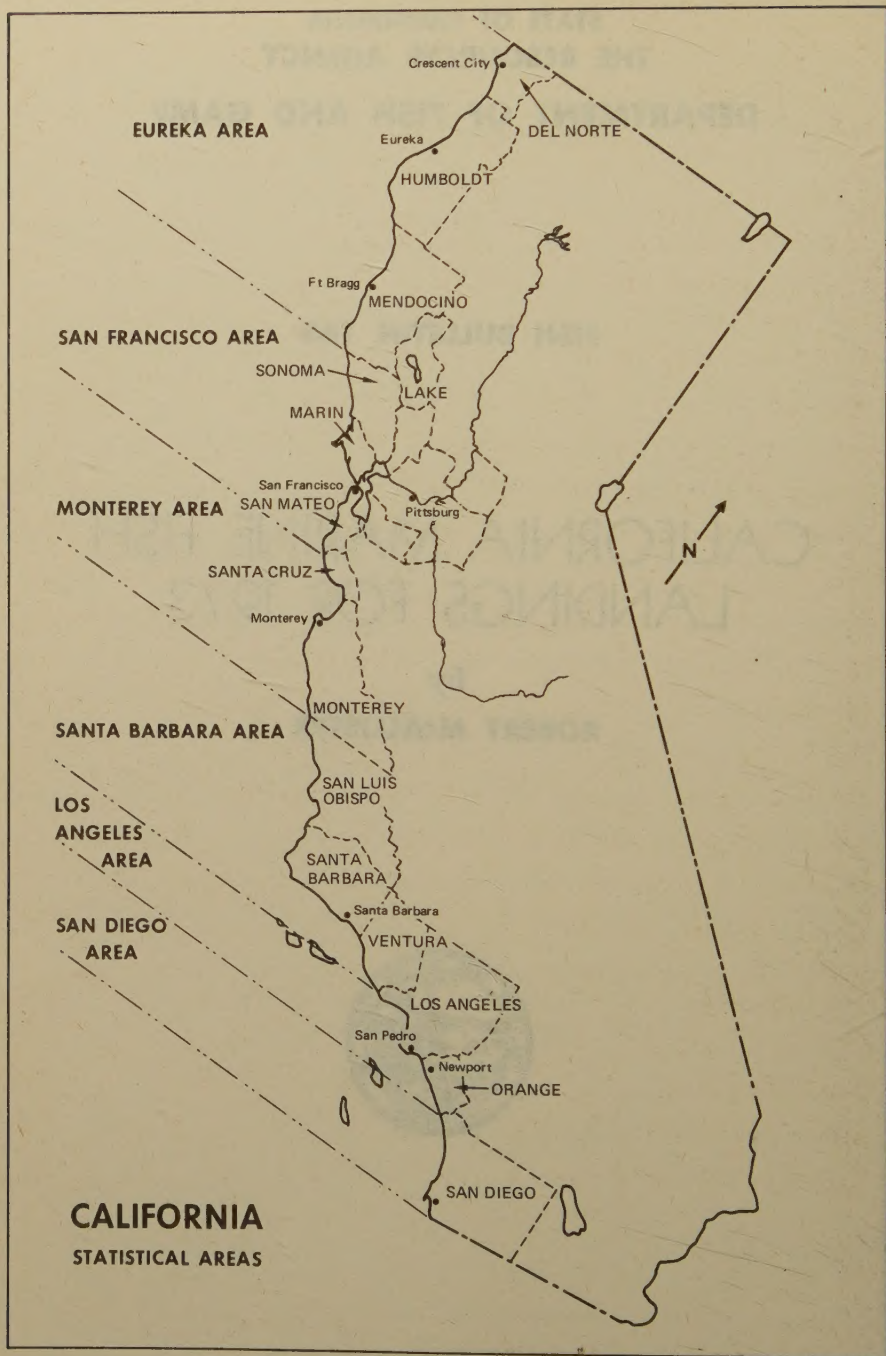


FIGURE 1. Geographical areas used to summarize California Fisheries Statistics.

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FOREWORD

Landing bulletins provide basic catch records of amounts and values of various marine resources taken by California's commercial fisheries while summarizing catches of the partyboat sportfishing industry. Small quantities of freshwater fish taken commercially in inland areas are also detailed. These figures are of local, national, and international significance to fishery scientists and others interested in the wise utilization and management of California's living marine resources.

This report for 1973 is the 33rd in a series stemming from the first gathering of commercial fisheries landing data by the California Department of Fish and Game in 1916 and the subsequent first publication of these catch data in 1929 for the years 1926 and 1927.

California's fishery statistics are based on a system where fish dealers, processors, and operators of sportfishing partyboats send duplicate copies of their landing records to the department. Fish Bulletin 86, which reported the catch for 1950, describes fully the system and methods used in collecting commercial fish records. Basic principles remain the same today as then, although methods and equipment have been changed as necessary. The partyboat fishing system is described in Fish Bulletin 145 by Parke Young (1969).

Credit for this publication is due largely to the cooperative efforts of the fishing industry, wholesale fish dealers, fishermen, canners, and processors, and department personnel responsible for the market receipt system who have through their efforts provided the most accurate statistics possible. My utmost appreciation is extended to this large group of people without which this publication would not be possible.

EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of the various fishery operations in California during 1973. Five types of activity are being reported this year: landings of commercial fishermen in California; sport catches of the partyboat fleet; imports of tuna from other states or foreign countries destined for processing in California; landings of inshore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, the species composition of the 1973 ocean salmon landings is reported.

Statistics presented in this publication do not encompass all fishing activities in California since not all of these functions are reported. For example, sportfishing from private boats or from shore is not reported, nor is the quantity of fish imported for use in a fresh state compiled.

Preliminary landing data are published annually in the circular series which enumerates certain fishery products produced from the catch. The 1973 figures are contained in Circular number 48, "Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1973" (Oliphant, 1973).

In years to come, the tables will be printed in metric values; however, for this bulletin the following necessary factors for conversion are provided.

1 Pound — 453.59 Grams

1 Pound — 0.453 Kilogram

1 Ton (Net or Short) = 0.907 Metric Ton

SOURCE OF DATA

Data concerning each commercial landing, inshore bait delivery, and import are recorded on receipts by fish dealers or processors at the time of delivery. Copies of these documents are transmitted to the department twice each month. For each transaction the dealer is required to provide the species, weight, and price paid to the fishermen. The date of the transaction, the fisherman's name, the fishing boat registration number, and intended use of the fish (canning, fresh, etc.) also are required. In addition, type of gear used and the specific area where the fish were caught are reported.

Partyboat catch data are obtained from logs completed by the boat operator. The log for each trip indicates the number of each species taken, number of anglers, number of hours fished, and the specific area fished. The date, boat name, and boat registration number also are furnished. Copies of these records are sent to the department monthly.

Operators of boats supplying live bait keep a voluntary daily log showing number of sets, species caught, area fished, and number of scoops of bait sold. Copies of these logs are furnished the department monthly. While these records represent most live bait landings, the reported catch should be regarded as minimal.

Clerical personnel at field offices in Eureka, Menlo Park, Long Beach, and San Diego maintain contact with fish dealers, local Fish and Game wardens, and field biologists to insure that the records are accurate and transmitted promptly. All data received by the department are carefully edited for completeness and coded to facilitate processing.

The information is then punched into cards and summarized with electric tabulating machines.

STATISTICAL AREAS

California is divided into seven areas for the purpose of reporting fisheries statistics (Figure 1). Each statistical area is named for a major port within its boundaries.

Sacramento area landings prior to 1972 were included with San Francisco totals. In the 1972 bulletin, the separation of all inland fish landings resulted in Appendix I and II. The status of these data is continued in its past form until future demand may require their elevation to table status.

SPECIES

The common and scientific names of species reported here are those designated by the department (Gates and Frey, 1974). Some species are reported only collectively when, for economic or other reasons, their separation is not practical (Table 1).

The "Miscellaneous (Animal Food)" category consists of a variety of low value species caught by trawling. Since it is impractical for dealers to report the many species separately, department biologists periodically sample this catch to determine its species composition. Based on this sampling, the percentage and weight compositions of 1973 animal food landings are as follows:

<i>Species</i>	<i>Percent</i>	<i>Pounds</i>
Pacific hake -----	47.5	153,226
Rockfish (12 species) -----	18.2	58,710
Sablefish -----	16.7	53,871
Dover sole -----	7.2	23,226
English sole -----	5.7	18,387
Rex sole -----	3.8	12,258
10 other species -----	0.9	2,903
	100.0	322,581

Salmon landings reported in the tables are for all species combined. However, biologists from the department's Anadromous Fisheries Branch sample the commercial and sport salmon fisheries to determine species composition of catches and to obtain estimates of the unreported skiff catch. The sampling methods and results for 1952 through 1965 were detailed by Jensen and Swartzell (1967); since 1966, results have been presented annually in the landing bulletins.

The miscellaneous fish category, as reported in the 1973 landings tables, consists of small volume deliveries of the following species: lamprey, California moray, striped mullet, Pacific halibut, sargo, shad, spotted cabrilla, and wolf-eel. Reporting of skate and ray species on market receipts was poor; the reported species consisted of skates, rays, stingrays, and shovelnose guitarfish. Miscellaneous mollusks consisted of mussels, quahogs, sea snails, soft shell clams, and Washington clams.

Due to increasing requests for marine plant harvest information, a table of kelp landings is presented in Appendix III. This is an updated version of the table presented by Frey (1971) on giant kelp, *Macrocystis* spp., landings by open and leased beds dating back to 1916.

CONDITION

Most fish and shellfish are landed in a round condition; however, some species, such as barracuda, salmon, and swordfish usually are

eviscerated or cleaned before being brought ashore. The condition of fish landed or shipped into the state cannot always be determined, so the tables represent summarized weights as reported to the department without regard to condition.

Since 1963, oyster landings have been reported as packed weight rather than weight in the shell. Packed weight is estimated to be 15.5% of the live weight for Pacific oysters and 10.9% for eastern oysters.

Landings reported in measurements other than weight are equated to pounds using conversion factors determined by periodic sampling.

Abalone number to weight conversion factors were reexamined during the 1970-71 abalone season by a department biological team. These conversion factors, rounded off to whole numbers, were used in 1972. The same factors are used in this bulletin and are as follows:

Abalone, red -----	45 pounds per dozen
Abalone, pink -----	25 pounds per dozen
Abalone, green -----	25 pounds per dozen
Abalone, white -----	20 pounds per dozen
Clam, Washington -----	7 pounds per dozen
Crab, Dungeness -----	2 pounds each
Live bait -----	12.5 pound per scoop

VALUE

Value is computed from prices paid to fishermen. Area value figures are ascertained by summing the value of all individual landings in that area. The value for an individual port within an area is calculated from weights of each species landed at that port and the average price paid for the species in that area. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

INSHORE BAIT

The inshore bait fishery takes numerous species of fish and invertebrates from bays, rivers, and intertidal regions. Records of this fishery have been published as a separate summary in landing bulletins since 1963. Conversion factors used for inshore bait for 1973 were as follows:

Crab, sand -----	0.041 pound per dozen
	4.5 pounds per gallon
Crab, shore -----	0.013 pound per dozen
Mudsucker -----	0.465 pound per dozen
Mussel -----	80.000 pounds per sack
Sculpin, staghorn -----	0.465 pound per dozen
Shrimp, ghost -----	0.128 pound per dozen

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TABLE 1

Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1973 Catch

Common name	Scientific name	Common name	Scientific name
FISHES			
Anchovy, Northern.....	<i>Engraulis mordax</i>	Salmon.....	
Barracuda, California.....	<i>Sphyræna argentea</i>	King.....	<i>Oncorhynchus tshawytscha</i>
Bass, rock.....		Pink.....	<i>Oncorhynchus gorbuscha</i>
Kelp bass.....	<i>Paralabraz clathratus</i>	Silver.....	<i>Oncorhynchus kisutch</i>
Sand bass, barred.....	<i>Paralabraz nebulifer</i>	Sanddab.....	<i>Citharichthys sordidus</i>
Spotted sand bass.....	<i>Paralabraz maculatofasciatus</i>	Sardine, Pacific.....	<i>Sardinops sagax caeruleus</i>
Blacksmith.....	<i>Chromis punctipinnis</i>	Sargo.....	<i>Anisotremus davidsonii</i>
Bonito, Pacific.....	<i>Sarda chilensis</i>	Sculpin.....	<i>Scorpaena guttata</i>
Cabezon.....	<i>Scorpaenichthys marmoratus</i>	Sculpin, Pacific staghorn.....	<i>Leptocottus armatus</i>
Cabrilla, spotted.....	<i>Epinephelus analogus</i>	Sea bass, giant.....	<i>Stereolepis gigas</i>
Croaker.....		Seabass, white.....	<i>Cynoscion nobilis</i>
White.....	<i>Genyonemus lineatus</i>	Senorita.....	<i>Oxyjulis californica</i>
Queenfish.....	<i>Seriphus politus</i>	Shark.....	
Dolphinfish.....	<i>Coryphaena hippurus</i>	Members of family Alopiidae, Carcharhinidae, Lamni-	
Eel, wolf.....	<i>Anarrhichthys ocellatus</i>	dae and Squalidae.....	
Flounder.....		Sheephead, California.....	<i>Pimelotopon pulchrum</i>
Arrowtooth.....	<i>Atheresthes stomias</i>	Skates and Rays.....	
Starry.....	<i>Platichthys stellatus</i>	Members of family Rhinobatidae, Rajidae and Mylio-	
Flyingfish.....	<i>Cypselurus</i> spp.	batidae.....	
Freshwater fish.....		Smelt.....	
Carp.....	<i>Cyprinus carpio</i>	Jacksmelt.....	<i>Atherinopsis californiensis</i>
Sacramento blackfish.....	<i>Orthodon microlepidotus</i>	Night.....	<i>Spirinchus starksi</i>
Greenling, kelp.....	<i>Hexagrammos decagrammus</i>	Surf.....	<i>Hypomesus pretiosus</i>
Grenadiers.....		Whitebait.....	<i>Allosmerus elongatus</i> and <i>Spirinchus starksi</i>
California.....	<i>Nezumia steldirolepis</i>	Sole.....	
Pacific.....	<i>Coryphaenoides acrolepis</i>	Butter.....	<i>Isopsetta isolepis</i>
Hake, Pacific.....	<i>Merluccius productus</i>	Dover.....	<i>Microstomus pacificus</i>
Halibut.....		English.....	<i>Parophrys vetulus</i>
California.....	<i>Paralichthys californicus</i>	Petrale.....	<i>Eopsetta jordani</i>
Pacific.....	<i>Hippoglossus stenolepis</i>	Rex.....	<i>Glyptocephalus zachirus</i>
Herring, Pacific.....	<i>Clupea harengus pallasi</i>	Rock.....	<i>Lepidopsetta bilineata</i>
Lamprey.....	<i>Lampetra</i> spp.	Sand.....	<i>Psettichthys melanostictus</i>
Lingcod.....	<i>Ophiodon elongatus</i>	Swordfish.....	<i>Xiphias gladius</i>
Mackerel.....		Tuna.....	
Jack.....	<i>Trachurus symmetricus</i>	Albacore.....	<i>Thunnus alalunga</i>
Pacific.....	<i>Scomber japonicus</i>	Bigeye.....	<i>Thunnus obesus</i>
Moray, California.....	<i>Gymnothorax mordax</i>	Bluefin.....	<i>Thunnus thynnus</i>
Mudsucker, longjaw.....	<i>Gillichthys mirabilis</i>	Skipjack, tuna.....	<i>Euthynnus pelamis</i>
Mullet, striped.....	<i>Mugil cephalus</i>	Skipjack, black.....	<i>Euthynnus lineatus</i>
Opaleye.....	<i>Girella nigricans</i>	Yellowfin.....	<i>Thunnus albacares</i>
Perch, ocean.....	Members of family Embiotocidae	Turbot.....	
Pompano (Butterfish, Pacific).....	<i>Peprilus similimus</i>	Curlfin.....	<i>Pleuronichthys decurrens</i>
Rockfish.....	Members of family Scorpaenidae	Diamond.....	<i>Hypsopsetta guttulata</i>
Sablefish.....	<i>Anoplopoma fimbria</i>	Hornhead.....	<i>Pleuronichthys verticalis</i>
AMPHIBIA			
Bullfrog.....	<i>Rana catesbeiana</i>	Wahoo.....	<i>Acanthocybium solanderi</i>
CRUSTACEANS			
Crab.....		Whitefish, ocean.....	<i>Caulolatilus princeps</i>
Dungeness.....	<i>Cancer magister</i>	Yellowtail.....	<i>Seriola dorsalis</i>
Pelagic red.....	<i>Pleuroncodes planipes</i>	MOLLUSKS	
Rock.....	<i>Cancer</i> spp.	Quahog, Northern.....	<i>Mercenaria mercenaria</i>
Sand.....	<i>Emerita analoga</i>	Softshell.....	<i>Mya arenaria</i>
Sheep.....	<i>Loxorhynchus</i> spp.	Washington, common.....	<i>Saxidomus nuttalli</i>
Shore.....	<i>Hemigrapsus</i> spp.	Mussel.....	
Crayfish.....	<i>Astacus trowbridgei</i>	Bay.....	<i>Mytilus edulis</i>
Lobster, spiny.....	<i>Panulirus interruptus</i>	Rock.....	<i>Mytilus californianus</i>
ECHINODERMS		Octopus.....	<i>Polypus</i> spp.
Sea urchin.....	<i>Strongylocentrotus</i> spp.	Oyster.....	
MOLLUSKS		Eastern.....	<i>Crassostrea virginica</i>
Abalone.....		Giant Pacific.....	<i>Crassostrea gigas</i>
Black.....	<i>Haliotis cracherodii</i>	Snail, sea.....	<i>Littorina ulandina</i>
Green.....	<i>Haliotis fulgens</i>	Squid, market.....	<i>Loligo opalescens</i>
Pink.....	<i>Haliotis corrugata</i>		
Red.....	<i>Haliotis rufescens</i>		
Threaded.....	<i>Haliotis assimilis</i>		
White.....	<i>Haliotis sorenseni</i>		
Clam.....			
Freshwater.....	<i>Corbicula fluminea</i>		
Jackknife, California.....	<i>Tagelus californianus</i>		
Littleneck.....	<i>Protothaca staminea</i>		
Purple.....	<i>Sanguinolaria nuttalli</i>		

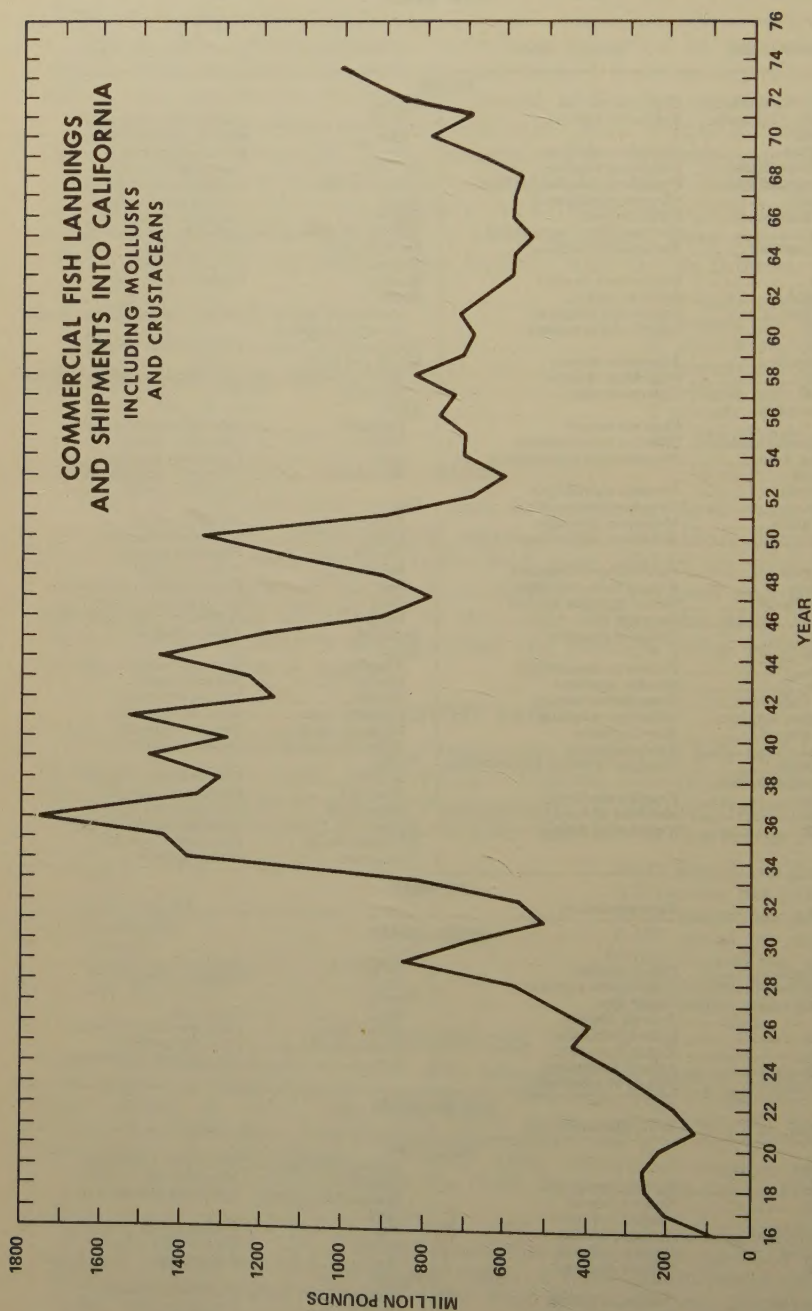


FIGURE 2. Total Annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930-38 are included. Since 1965, tunas are the only species included in shipments.

TABLE 2

Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938

Year	Thousands of pounds	Year	Thousands of pounds
1916	95,003	1946	919,822
1917	209,877	1947	795,499
1918	261,134	1948	900,467
1919	266,270	1949	1,135,339
1920	222,004	1950	1,366,676
1921	135,348	1951	904,114
1922	182,343	1952	694,996
1923	253,875	1953	618,919
1924	340,446	1954	713,410
1925	437,502	1955	710,713
1926	394,964	1956	772,551
1927	487,166	1957	738,550
1928	583,527	1958	832,919
1929	856,854	1959	713,423
1930	702,189	1960	694,663
1931	502,390	1961	725,253
1932	556,139	1962	663,107
1933	821,805	1963	592,899
1934	1,390,798	1964	591,131
1935	1,448,017	*1965	544,480
1936	1,764,900	1966	591,533
1937	1,362,984	1967	589,028
1938	1,310,596	1968	567,214
1939	1,486,535	1969	672,793
1940	1,297,518	1970	798,415
1941	1,528,892	1971	687,995
1942	1,173,414	1972	845,699
1943	1,234,049	1973	1,006,431
1944	1,459,456		
1945	1,216,501		

* Beginning in 1965 only tuna shipments are recorded.

TABLE 3

Landings and Shipments of Leading Species Ranked by Pounds *

1972				1973			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna	1	278,487	\$65,377	Yellowfin tuna	1	279,084	\$72,191
Anchovy, northern	2	138,202	1,678	Anchovy, northern	2	265,272	6,646
Skipjack tuna	3	123,768	28,851	Skipjack tuna	3	198,838	57,359
Albacore tuna	4	97,132	38,882	Albacore tuna	4	73,648	36,087
Jack mackerel	5	51,118	2,153	Pacific bonito	5	30,788	3,202
Bluefin tuna	6	30,974	7,033	Bluefin tuna	6	27,359	7,006
Pacific bonito	7	22,313	2,055	Dover sole	7	22,486	2,276
Dover sole	8	22,082	1,808	Rockfish	8	22,052	2,251
Squid	9	20,159	534	Jack mackerel	9	20,616	992
Rockfish	10	16,421	1,490	Squid	10	12,062	435
Sablefish	11	8,396	649	Salmon	11	9,669	8,991
Salmon	12	6,423	4,830	Sablefish	12	8,550	661
Petrale sole	13	3,575	599	Sea Urchin	13	3,595	280
Lingcod	14	3,246	339	Lingcod	14	3,560	389
Abalone	15	3,093	1,248	English sole	15	3,210	444
English sole	16	3,002	342	Abalone	16	3,193	1,077
Ocean shrimp	17	2,490	374	Petrale sole	17	2,877	559
Rex sole	18	1,662	201	Pacific herring	18	2,819	108
Dungeness crab	19	1,563	889	Bigeye tuna	19	1,788	554
Black skipjack	20	1,543	123	Rex sole	20	1,585	228
All others	--	10,050	3,064	All others	--	13,380	4,835
Totals	--	845,699	\$162,519	Totals	--	1,006,431	\$206,571

* Only the tunas are included in the shipments.

TABLE 4
Number of Licensed Commercial Fishermen

Area of residence	License year*	
	1972-73	1973-74
Eureka.....	1,870	1,993
Sacramento.....	488	513
San Francisco.....	2,035	2,318
Monterey.....	800	1,097
Santa Barbara.....	941	1,387
Los Angeles.....	2,070	2,499
San Diego.....	1,688	1,717
Alaska, Washington and Oregon fishermen licensed in California.....	524	550
Mexican nationals licensed in California.....	39	22
Other.....	58	57
Totals.....	10,513	12,153

* April 1 to March 31.

TABLE 5
Number of Registered Fishing Boats by Length

Length group in feet	License year*		Length group in feet	License year*	
	1972-73	1973-74		1972-73	1973-74
0- 10.....	3	4	101-105.....	8	5
11- 15.....	128	163	106-110.....	6	5
16- 20.....	954	1,119	111-115.....	4	5
20- 25.....	679	870	116-120.....	8	8
26- 30.....	707	842	121-125.....	5	4
31- 35.....	628	684	126-130.....	7	3
36- 40.....	820	860	131-135.....	6	7
41- 45.....	429	435	136-140.....	9	10
46- 50.....	311	306	141-145.....	1	1
51- 55.....	136	141	146-150.....	0	0
56- 60.....	113	136	151-155.....	16	17
61- 65.....	110	107	156-160.....	3	4
66- 70.....	35	31	161-165.....	3	3
71- 75.....	32	37	166-170.....	4	4
76- 80.....	29	29	171-175.....	4	6
81- 85.....	19	22	176-180.....	0	2
86- 90.....	10	10	181 and over.....	19	35
91- 95.....	8	9			
96- 100.....	7	8	Total.....	5,261**	5,932†

* April 1 to March 31.

** The owners of 465 boats were issued fishing party licenses in 1972-73.

† The owners of 489 boats were issued fishing party licenses in 1973-74.

TABLE 6
Origin of Shipments Received for Processing in California During 1973 *

Shipped from: Species	Pounds shipped to each area		Total pounds
	Los Angeles	San Diego	
Oregon, Washington, Canada and Alaska:			
Tuna, albacore.....	16,357,747	436,419	16,794,166
Mexico and Central America:			
Tuna, bluefin.....	64,502	286,279	350,781
Tuna, skipjack.....	400,988	394,438	795,426
Tuna, skipjack, black.....	37,265	---	37,265
Tuna, yellowfin.....	3,929,498	5,108,195	9,037,693
South America:			
Tuna, skipjack.....	6,365,960	---	6,365,960
Tuna, yellowfin.....	4,865,137	---	4,865,137
Japan:			
Tuna, albacore.....	33,681,221	3,552,705	37,233,926
Tuna, bigeye.....	58,925	---	58,925
Tuna, bluefin.....	306,240	---	306,240
Tuna, skipjack.....	110,256,227	23,811,720	134,067,947
Tuna, skipjack, black.....	10,094	---	10,094
Tuna, yellowfin.....	6,344,764	2,258,154	8,602,918
Australia and New Zealand:			
Tuna, albacore.....	326,219	---	326,219
Tuna, bluefin.....	6,482,340	---	6,482,340
Tuna, skipjack.....	64,441	---	64,441
Tuna, yellowfin.....	8,202	6,117	14,319
China (Formosa):			
Tuna, albacore.....	336,871	81,965	418,836
Tuna, bigeye.....	---	14,402	14,402
Tuna, skipjack.....	207,733	279,159	486,892
Tuna, yellowfin.....	5,022,512	2,966,767	7,989,279
Malaya:			
Tuna, albacore.....	2,490,683	---	2,490,683
Tuna, bluefin.....	32,550	---	32,550
Tuna, skipjack.....	8,265	---	8,265
Tuna, yellowfin.....	1,737,955	498,242	2,236,197
South Pacific Islands:			
Tuna, albacore.....	7,468,658	---	7,468,658
Tuna, skipjack.....	11,439,142	---	11,439,142
Tuna, yellowfin.....	5,684,076	---	5,684,076
Africa:			
Tuna, albacore.....	190,098	---	190,098
Tuna, skipjack.....	11,169,417	---	11,169,417
Tuna, yellowfin.....	1,083,787	---	1,083,787
Philippines:			
Tuna, bigeye.....	576,625	57,727	634,352
Tuna, skipjack.....	1,872,422	1,866,206	3,738,628
Tuna, yellowfin.....	5,099,146	1,677,329	6,776,475
Hawaiian Islands:			
Tuna, skipjack.....	440,076	---	440,076
Thailand:			
Tuna, bigeye.....	135,631	39,132	174,763
Korea:			
Tuna, albacore.....	---	84,423	84,423
Tuna, skipjack.....	411,730	40,766	452,496
Total pounds.....	244,967,147	43,460,145	288,427,292

* Beginning in 1965 only tuna shipments are recorded.

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments into California During 1973

Species	Landings of catches from					Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Central Pacific waters	Total pounds		
Fish:							
Anchovy.....	265,271,871	---	---	---	265,271,871	---	265,271,871
Baracuda, California.....	37,547	---	58	---	37,605	---	37,605
Blacksmith.....	12,000	---	---	---	12,000	---	12,000
Bonito, Pacific.....	18,525,253	---	12,262,478	---	30,787,731	---	30,787,731
Butterfish, Pacific.....	94,943	---	---	---	94,943	---	94,943
Cabezon.....	4,554	---	---	---	4,554	---	4,554
Croaker, white.....	227,096	---	---	---	227,096	---	227,096
Dolphinfish.....	925	---	5,119	---	6,044	---	6,044
Eel.....	382	---	---	---	382	---	382
Flounder.....	713,898	1,005	---	---	714,903	---	714,903
Flounder, arrowtooth.....	225,146	11,098	---	---	236,244	---	236,244
Flyingfish.....	160,981	---	---	---	160,981	---	160,981
Grenadiers.....	61,040	9,820	1,150	---	70,860	---	70,860
Grouper.....	---	---	---	---	1,150	---	1,150
Hake, Pacific.....	34,175	---	---	---	34,175	---	34,175
Halibut.....	11,779	---	---	---	11,779	---	11,779
Halibut, California.....	272,466	---	1,060	---	273,526	---	273,526
Herring, Pacific.....	2,819,467	---	---	---	2,819,467	---	2,819,467
Langcod.....	3,465,438	---	---	---	3,559,621	---	3,559,621
Lingcod.....	---	94,183	---	---	---	---	---
Mackerel, jack.....	20,615,827	---	---	---	20,615,827	---	20,615,827
Mackerel, Pacific.....	56,770	---	78	---	56,848	---	56,848
Mudsnapper, longjaw.....	1,286	---	---	---	1,286	---	1,286
Mullet.....	2,599	---	---	---	2,599	---	2,599
Opaleye.....	23,688	---	---	---	23,688	---	23,688
Perch.....	132,125	---	5,875	---	138,000	---	138,000
Queenfish.....	39,406	---	---	---	39,406	---	39,406
Rockfish.....	21,314,997	676,561	60,897	---	22,052,455	---	22,052,455
Sablefish.....	7,608,876	941,105	---	---	8,550,071	---	8,550,071
Salmon.....	9,668,966	---	18	---	9,668,984	---	9,668,984
Sanddab.....	902,117	1,884	---	---	904,001	---	904,001
Sardine, Pacific.....	151,599	---	---	---	151,599	---	151,599
Sargo.....	235	---	---	---	235	---	235
Scupin.....	37,934	---	120,926	---	158,860	---	158,860
Sea bass, giant.....	40,736	---	50,101	---	90,837	---	90,837
Seabass, white.....	581,440	---	227,465	---	808,905	---	808,905
Senorita.....	5,375	---	---	---	5,375	---	5,375
Shark.....	386,771	162	31,771	---	418,694	---	418,694
Sheephead, California.....	2,962	---	110	---	3,072	---	3,072
Skate.....	132,521	017	---	---	133,433	---	133,433

TABLE 8 Monthly Landings and Shipments into California During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchovy.....	188,450	45,769	872,006	45,128,739	36,660,231	194,946	271,275	8,310,810	49,223,259	36,365,840	44,603,162	43,407,384	265,271,871
Barracuda.....	54	34	13	973	6,025	23,424	3,827	58	199	351	747	1,800	37,605
Blackfish.....						8,000	4,000	4,543,269	4,012,992	4,450,646	1,934,751	2,319,993	30,787,731
Bonito.....	3,767,152	688,071	1,036,320	558,359	332,951	3,292,052	3,860,955	4,543,269	4,012,992	4,450,646	1,934,751	2,319,993	30,787,731
Butterfish, Pacific.....	1,527	9,394	36,672	9,359	17,369	1,343	5,722	3,264	1,902	4,402	920	3,063	94,943
Cabazon.....	789	1,439	1,031	85	310		130		41		118	611	4,554
Croaker, white.....	19,715	15,678	12,572	21,001	35,634	15,992	40,459	16,685	18,163	9,155	11,347	10,695	227,096
Dolphinfish.....	290	635	170	1,049	3,900			203			15		6,044
Eel.....	10	10					9				10		382
Flounder.....	10,230	20,721	22,709	35,610	32,732	39,591	101,174	259,760	48,844	114,909	6,466	22,157	714,903
Flounder, arrowtooth.....	12,623	17,624	19,879	22,731	22,447	17,058	19,742	35,641	34,372	28,684	555	4,888	236,244
Flyingshiner.....					55,317	52,209	22,570	30,885		19,523		7,933	160,981
Grenadier.....	118	1,213	1,200	155		1,034	2,712	5,080	31,609		283		70,860
Grouper.....													1,150
Hake, Pacific.....				1,908	3,146	20,241	2,090	5,650	725	415			34,175
Halibut.....	839	1,119		687	1,406	3,005	1,015	544	290	120	1,112	1,642	11,779
Halibut, California.....	9,042	5,798	11,484	9,502	23,147	50,584	49,290	38,924	20,771	20,822	19,572	15,330	273,526
Herring, Pacific.....	1,221,446	756,491	153,059	49,739	192,705	96,461	275,926	39,770	24,800	5,100	300	3,670	2,813,467
Lingcod.....	94,732	99,448	150,062	187,157	395,666	514,340	537,253	650,927	358,315	286,046	116,973	168,702	3,559,621
Mackerel, jack.....	253,099	424,929	473,204	718,991	1,445,222	6,844,041	3,442,374	1,862,729	471,957	3,238,175	1,182,215	258,891	20,615,827
Mackerel, Pacific.....		125	1,512	174	376	5,369	34,688	3,194	1,055	3,685	6,545	125	56,848
Mudsnapper, longjaw.....		172	89	152	141	90	205	106		123	30	25	1,286
Mullet.....	83			1,781	818	4,204	10,671	2,847	2,627	980	1,300	538	2,599
Opaleye.....	157			364	3,597	17,839	14,251	17,979	13,897	5,705	4,508	6,351	23,688
Perch.....	6,187	8,481	9,545	29,660									138,000
Queenfish.....	1,250	825	20,550	23,330	20,690	38,610	14,545	16,360	14,333		715	452	151,599
Rockfish.....	1,618,761	1,668,977	1,886,443	1,946,999	1,867,692	1,883,012	2,227,665	2,065,097	1,637,968	1,344,544	1,364,061	1,735,616	22,052,455
Sablefish.....	413,154	447,680	746,134	695,543	922,584	3,883,799	790,043	850,379	885,670	821,091	427,431	702,563	8,550,071
Salmon.....				495,838	2,435,175	3,360,274	2,098,637	999,070	479,042	148			9,663,984
Sanddab.....	9,608	43,334	33,897	58,594	107,923	137,426	172,076	161,683	72,448	61,168	21,435	24,409	904,001
Sardine, Pacific.....	1,189	825	20,550	23,330	20,690	38,610	14,545	16,360	14,333		715	452	151,599
Sargo.....							25						295
Sculpin.....	2,312	1,109	756	6,067	3,419	42,359	66,288	32,441	1,655	871	536	1,047	158,860
Sea bass, giant.....	2,929		90	6,024	5,308	6,024	5,308		6,461	23,377	6,978	17,598	90,837
Seabass, white.....	56,606	23,604	20,594	20,750	71,659	83,585	192,774	220,757	30,853	24,021	37,690	26,012	808,905
Senorita.....				5,375									5,375
Shark.....	18,359	9,420	13,044	18,117	47,089	65,049	78,542	33,268	25,764	30,849	44,095	35,098	418,694
Sheepshead, California.....	564	354	33	21	220	732	857	53	36	52	132	18	3,072
Skate.....	8,613	11,110	14,768	17,397	14,911	10,538	16,177	16,816	8,965	7,161	2,240	4,797	133,433
Smelt.....	11,780	42,501	5,963	76,332	87,917	112,695	156,029	209,875	83,595	103,948	28,960	5,425	925,040
Snelt, whitebait.....	5,294	33,647	24,958	51,232	110,850	74,058	78,467	3,370	164			100	382,140
Sole, Dover.....	469,939	936,132	1,741,578	2,055,390	3,389,904	2,611,266	2,514,511	2,522,460	2,842,724	2,036,690	352,080	1,013,151	22,485,725
Sole, English.....	166,294	272,148	227,828	257,916	292,816	253,378	271,423	543,760	344,672	307,490	131,959	160,049	3,299,733

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Cabezon.....	2,278	157	543	20,000	20,656	14,314	73,730	229,982	40,350	95,545	1,523	21	721
Flounder.....	4,650	11,189	4,650	21,761	17,158	14,264	13,558	32,403	33,947	26,058	480	9,759	523,985
Flounder, arrowtooth.....	9,823	15,921	19,524	21,761	17,158	14,264	13,558	32,403	33,947	26,058	480	9,759	212,919
Grenadiers.....	721	721	880	1,908	1,746	9,996	196	5,080	21,900	16,854	283	5,616	51,630
Hake.....	---	---	---	---	---	---	---	---	---	415	---	---	14,065
Hallbut, California:													
Herring, Pacific.....	---	18,520	1,965	47,479	87,289	186,810	267,059	451,275	208,043	140,548	9,259	3,670	24,155
Langcod.....	11,438	38,972	41,134	3,233	3,233	448,616	6,892	11,109	3,781	1,905	---	27,863	1,513,179
Perch.....	467	1,420	498	459,727	389,132	448,616	639,027	894,302	461,568	601,733	69,564	18	26,323
Rockfish.....	244,804	418,311	401,241	437,893	643,821	519,592	471,944	550,918	408,107	510,152	116,114	380,978	5,086,054
Sablefish.....	210,123	251,610	514,802	87,113	1,595,684	2,576,265	1,333,726	81,338	26,521	44,511	1,270	3,803	5,700,647
Salmon.....	5,056	28,790	16,010	23,518	59,476	96,455	121,670	108,809	37,792	41	1,357	778	547,160
Sanddab.....	569	1,084	568	146	---	6	70	83	41	1,962	1,357	228	6,663
Shark.....	2,422	4,502	955	606	1,076	3,111	774	2,074	4,156	3,576	135	---	23,615
Skate.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Smelt.....	50	245	978	43,832	51,854	108,265	151,077	196,827	78,893	246	---	---	632,267
Smelt, whitebat.....	4,666	32,669	23,632	50,626	108,806	71,769	77,183	3,370	164	---	---	---	372,885
Sole, Dover.....	293,122	541,617	1,173,218	1,253,591	2,504,588	1,749,311	1,620,418	1,869,893	1,616,299	1,357,516	157,814	580,242	14,717,629
Sole, English.....	17,445	131,144	114,126	133,620	158,079	101,639	136,629	370,266	184,824	159,869	6,257	19,229	1,533,027
Sole, petrale.....	209,208	105,334	69,049	36,576	54,141	61,793	75,997	151,174	105,186	90,465	4,751	379,095	1,342,679
Sole, rex.....	65,258	125,615	138,700	124,462	93,673	100,102	110,906	144,021	88,912	71,140	2,296	55,866	1,120,951
Sole, sand.....	1,630	6,848	1,911	13,014	27,485	3,543	2,125	12,020	12,200	10,169	2,050	1,919	103,971
Sole, miscellaneous.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Tuna, albacore.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Turbot.....	155	1,769	1,405	954	386	1,734	62,922	39,686	751,389	206,994	---	334	1,060,991
Miscellaneous.....	---	---	---	---	---	---	---	---	79	717	---	---	9,280
Miscellaneous (animal food).....	---	---	---	---	1,926	---	---	---	1	1,999	---	---	1
Crustacean:													
Crab, dungeness.....	224,657	156,297	31,604	69,154	60,356	35,254	16,561	16,993	---	---	---	---	610,876
Crab, rock.....	---	---	---	80	350	120	---	1,120	---	240	---	---	1,910
Shrimp, Pacific ocean.....	---	---	47,751	95,016	95,016	60,655	614,602	156,735	8,077	---	---	---	982,836

TABLE 10
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy.....	---	---	---	69,190	111,220	94,556	132,144	110,050	42,350	142,100	94,500	---	796,194
Bonito, Pacific.....	---	---	---	---	---	---	---	148	6,360	---	---	---	6,508
Butterfish, Pacific.....	---	---	---	---	92	---	---	80	---	62	---	---	234
Cabezon.....	---	---	7	---	---	---	---	---	---	---	---	505	512
Croaker, white.....	370	20	250	4,230	6,167	6,123	5,124	8,883	6,599	2,277	1,655	515	42,213
Eel.....	---	---	---	---	---	---	---	160	---	---	---	---	160
Flounder.....	1,468	7,004	5,575	7,689	5,984	20,713	16,246	9,646	8,220	19,213	2,685	1,529	105,972
Flounder, arrowtooth.....	2,800	1,533	365	---	290	250	350	2,543	825	1,875	75	1,731	12,627
Grenadiers.....	118	492	320	155	---	---	---	---	4,693	1,415	---	2,317	9,510
Haitbut, California.....	1,645	1,595	945	1,375	158	2,220	3,111	7,930	5,499	5,506	3,195	1,343	34,522
Herring, Pacific.....	1,221,446	737,971	151,044	189	---	---	---	---	65,831	64,145	24,854	---	2,110,650
Lingcod.....	10,688	8,903	9,314	17,222	19,777	63,576	118,629	82,901	3,613	425	---	57,340	543,180
Mackerel, jack.....	---	---	---	---	---	---	486	2,525	496	---	---	---	7,049
Mackerel, Pacific.....	---	---	---	---	141	---	---	45	---	---	---	---	541
Mudsucker, longjaw.....	83	172	89	152	---	90	205	106	70	123	30	25	1,286
Perch.....	2,206	3,141	7,312	10,752	---	---	1,067	864	1,886	443	995	2,928	31,594
Rockfish.....	296,602	307,004	346,717	281,113	111,541	179,533	341,730	224,513	245,171	332,161	77,134	322,992	3,068,110
Sablefish.....	138,626	155,733	210,712	152,867	101,376	134,033	62,158	104,360	140,440	127,265	78,795	183,778	1,590,033
Salmon.....	---	---	---	264,854	598,114	340,373	329,353	403,465	390,402	418	---	---	2,226,719
Sanddab.....	2,053	8,136	4,875	11,895	32,625	27,659	21,381	22,885	15,560	7,315	9,760	8,781	172,925
Seabass, white.....	---	---	---	---	39	---	---	---	---	---	---	---	39
Shark.....	3,670	2,388	1,935	2,188	3,290	2,501	5,425	6,558	7,197	5,973	5,447	1,523	48,096
Skate.....	200	1,288	245	---	---	---	---	---	240	575	---	200	2,745
Smelt.....	75	72	736	463	1,553	205	1,003	1,848	1,282	2,344	---	60	9,641
Smelt, whitebait.....	628	---	1,326	606	---	2,289	1,284	---	---	---	---	100	9,255
Sole, Dover.....	113,014	384,690	567,470	454,608	313,979	286,779	244,614	392,961	698,311	433,796	71,590	320,709	4,262,521
Sole, English.....	84,327	45,095	25,060	62,176	70,824	88,047	66,444	110,218	98,828	75,344	74,399	90,837	891,569
Sole, petrale.....	116,347	63,154	52,446	41,120	59,494	34,657	64,804	53,785	56,585	41,810	25,764	153,851	763,851
Sole, rex.....	48,120	35,164	16,795	14,262	7,620	3,705	9,070	18,510	20,135	20,135	6,830	39,388	242,339
Sole, sand.....	2,320	1,085	3,265	10,106	5,966	21,345	5,395	24,820	12,037	9,625	12,390	4,172	112,526

Sole, miscellaneous-----	45	---	---	---	---	1,345	4,375	2,562	530	153	68	9,078
Tuna, albacore-----	---	---	---	---	---	472	2,131	223,317	89,235	1,508	---	316,663
Turbot-----	49	45	2,019	2,635	3,115	2,300	5,225	1,970	2,355	2,165	280	23,978
Miscellaneous-----	---	---	---	---	---	---	---	---	---	---	---	2
Crustacean:												
Crab, dungeness-----	26,705	9,218	3,239	2,635	1,406	---	---	---	---	128,429	129,757	338,674
Crab, rock-----	---	115	80	---	---	---	---	---	---	---	---	195
Shrimp, Pacific ocean-----	---	---	67,637	178,394	---	---	---	---	---	---	---	246,031
Echinoderm:												
Sea urchin-----	---	---	60	---	---	---	---	---	---	---	5,038	5,098
Mollusk:												
Abalone, red-----	1,094	1,056	2,309	360	2,208	6,910	---	5,317	2,147	82	232	21,715
Octopus-----	555	512	455	335	131	560	523	425	90	101	498	5,191
Oyster, Eastern-----	70	101	95	79	109	65	110	94	174	137	84	1,148
Oyster, giant Pacific-----	4,889	5,133	11,694	12,008	13,028	1,106	29,798	14,947	14,509	19,206	17,253	144,963
Total pounds-----	2,092,349	1,794,783	1,494,800	1,578,750	1,308,645	1,442,850	1,631,926	2,053,867	1,403,117	641,959	1,347,868	18,213,887
Waters north of State:												
Fish:												
Tuna, albacore-----	---	---	---	---	---	---	---	53,832	6,726	1,583	---	62,141
Total pounds-----	---	---	---	---	---	---	---	53,832	6,726	1,583	---	62,141
Grand total-----	2,092,349	1,794,783	1,494,800	1,578,750	1,308,645	1,442,850	1,631,926	2,107,699	1,409,843	643,542	1,347,868	18,276,028

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total Pounds
LANDINGS FROM:													
California Waters:													
Fish:													
Anchovy.....	12,850	---	---	1,154,050	775,000	52,400	60,100	3,402,800	7,186,250	7,733,000	6,489,900	6,561,300	33,427,650
Barraouda, California.....	---	---	---	---	---	---	---	4	13	7	82	---	106
Bonito, Pacific.....	901,628	---	2,888	---	352	---	12	189,929	314,266	128,631	81,991	264,394	1,886,709
Butterfish, Pacific.....	---	---	---	---	---	---	---	---	---	55	---	---	407
Cabezon.....	782	817	470	85	---	---	71	---	---	---	76	---	2,301
Crustaceans:													
Crab, white.....	---	---	---	---	---	---	---	---	---	---	---	105	105
Flounder.....	204	554	7,111	2,945	35	92	35	165	---	15	866	1,785	13,807
Hake, Pacific.....	---	---	---	---	230	10,245	2,090	5,650	725	---	---	---	18,960
Halibut, California.....	3,623	3,208	6,238	4,867	12,930	25,952	15,608	13,740	13,740	14,318	14,648	10,062	137,609
Lingcod.....	22,384	12,527	30,715	62,595	185,879	151,956	89,833	66,058	61,702	45,859	26,855	26,992	784,355
Mollusks:													
Mackerel, jack.....	11,600	---	---	---	---	6,399	1,802	3,200	379	---	---	---	23,380
Mackerel, Pacific.....	---	---	---	---	---	---	---	---	---	---	45	---	45
Opaleye.....	867	609	896	3,716	74	---	790	2,585	1,516	2,063	1,294	1,528	15,877
Perch.....	267,177	328,916	350,495	344,207	472,168	442,067	381,226	320,240	255,586	347,323	232,325	135,001	3,876,731
Reptiles:													
Sablefish.....	---	---	1,490	1,803	8,215	1,955	950	---	---	205	335	810	15,766
Salmon.....	---	---	---	8,443	35,180	33,606	103,337	137,148	10,286	---	---	---	328,000
Sanddab.....	94	---	---	6	---	118	---	---	---	10	---	---	228
Sea bass, giant.....	---	---	---	---	40	81	80	---	---	---	233	---	434
Seabass, white.....	7,952	9,890	8,198	1,622	828	6,565	27,331	2,903	2,449	3,788	2,257	3,729	77,512
Sharks:													
Shark.....	6,266	1,780	3,252	5,951	4,664	8,201	7,504	4,399	2,979	3,313	4,659	4,036	57,004
Sheephead, California.....	---	---	26	---	95	45	56	7	---	---	---	---	229
Smelt.....	---	---	---	---	8,235	8,325	11,000	11,665	7,230	4,880	2,190	1,040	61,555
Sole, Dover.....	95	---	890	6,005	8,235	10,357	11,442	11,027	17,960	32,601	24,131	25,973	333,253
Sole, English.....	42,640	71,005	57,277	15,872	10,268	---	---	---	---	---	---	---	---
Squid:													
Sole, petrale.....	16,825	18,297	28,480	48,035	80,795	34,367	18,442	41,750	66,145	30,214	27,534	47,980	458,864
Sole, rex.....	3,820	15,626	8,678	7,155	3,860	1,555	1,690	1,590	1,275	4,905	2,501	2,635	57,200
Sole, sand.....	1,045	555	3,149	500	625	240	1,140	115	---	---	4,235	5,690	17,294
Sole, miscellaneous.....	520	1,382	510	140	14	36	374	---	34	21	63	8	3,372
Swordfish.....	---	---	---	---	---	---	3,710	34,843	24,180	31,956	1,229	---	95,918

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Sheephead, California											110		110
Swordfish					591								591
Tuna, albacore				159,000		2,764	41,712		271,730	87,144			89,898
Tuna, bigeye				20,415	33,440	796,027	2,819,420	3,411,316	3,444,448	368,428	140,825	27,710	661,892
Tuna, bluefin		2,795									197,815		11,988,104
Tuna, skipjack	339,799	494,502	1,097,793	983,444	3,669,373	3,085,862	1,231,986	1,190,213	1,377,648	1,405,589	2,471,927	1,052,297	18,400,433
Tuna, skipjack, black			264,140	330,505	240,184	172,953					466,505		1,074,287
Tuna, yellowfin	1,383,356	27,265,647	11,162,345	28,770,857	29,372,382	13,293,831	18,935,559	6,901,266	11,725,562	14,864,938	12,657,334	14,431,650	190,764,737
Wahoo	319	7,217	3,385										10,921
Whitfish, ocean									36	57		47	140
Yellowtail	11,298			1,925	3,357	11,768	72,475	17,725	3,810	2,375	12,205	385	137,323
Crustacean:													
Crab, pelagic red				42,565		43,760							86,325
Total pounds	1,746,697	27,770,366	12,548,748	30,327,534	33,451,909	19,490,250	24,771,224	13,604,937	17,254,081	17,169,943	15,999,272	15,614,609	229,749,570
Central Pacific Islands:													
Fish:							5,018						5,018
Tuna, skipjack							15,272						15,272
Tuna, yellowfin													
Total pounds							20,290						20,290
Shipments*:													
Fish:													
Tuna, albacore	2,464,210	2,079,751	1,485,262	4,652,065	3,994,704	8,070,574	8,555,894	8,816,243	10,108,112	4,931,161	3,022,283	2,641,148	60,851,497
Tuna, bigeye	67,198	112,321	1,710	23,310	86,002	44,716	47,810	231,568	77,530	42,891	33,925	2,200	771,181
Tuna, bluefin	100,265		286,933	3,024,776	1,192,440	1,658,302	126,655	496,261					6,885,632
Tuna, skipjack	4,010,552	5,051,360	4,224,009	6,954,779	7,443,003	4,759,872	10,632,983	14,474,526	16,823,729	26,450,295	18,180,676	23,621,617	142,639,401
Tuna, skipjack, black			25,445			11,820		10,094					41,389
Tuna, yellowfin	2,181,224	1,490,428	1,021,351	4,684,626	1,565,411	3,128,487	4,289,048	7,494,688	2,661,311	2,153,018	1,725,134	1,380,351	33,775,077
Total pounds	8,823,449	8,733,860	7,044,710	19,339,556	14,281,650	17,673,771	23,692,390	31,523,380	29,670,682	33,586,365	22,962,018	27,645,316	244,967,147
Grand total	15,475,518	39,863,235	22,882,488	96,153,350	86,279,819	45,339,871	54,517,716	52,328,779	89,718,352	84,952,486	79,506,060	83,640,438	750,843,112

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy.....	54	34	13	188	187	2,595	19	6	147	344	50	---	262
Barracuda, California.....	6,679	6,996	---	703	2,868	10,019	2,563	19,312	18,169	20,462	34	---	6,219
Bonito, Pacific.....	---	---	---	---	---	---	5,238	---	53	---	5,139	1,779	97,364
Butterfish, Pacific.....	---	---	---	---	---	---	---	---	---	---	---	---	53
Cabezon.....	---	---	---	---	---	---	---	---	---	---	---	5	5
Croaker, white.....	54	---	441	135	169	11	---	---	---	---	---	103	913
Dolphinfish.....	290	635	---	---	---	---	---	---	---	---	---	---	925
Eel.....	10	---	---	---	---	---	9	9	---	---	---	---	28
Flounder.....	---	---	---	36	137	230	116	130	89	---	---	---	738
Hallibut.....	762	1,025	---	687	1,316	864	916	544	110	120	1,112	1,556	9,012
Hallibut, California.....	1,540	199	408	2,317	7,424	9,555	2,982	2,089	1,016	157	293	510	28,490
Lingcod.....	109	9	---	---	70	---	10	---	24	78	212	---	512
Mackerel, jack.....	---	---	236	---	---	23	1,947	132	648	8	---	90,825	93,819
Mackerel, Pacific.....	---	---	---	174	364	964	680	629	167	---	---	---	2,978
Mullet.....	---	---	---	1,781	818	---	---	---	---	---	---	---	2,599
Opaleye.....	---	---	---	---	---	---	---	---	---	---	---	338	338
Perch.....	2,315	575	30	1,774	2,353	1,018	2,756	1,470	1,498	124	607	583	15,103
Queenfish.....	---	---	---	---	---	---	---	24	---	---	---	---	106
Rockfish.....	40,092	81,581	52,712	87,335	70,003	42,496	35,037	31,564	48,752	77,611	93,159	97,286	757,628
Sablefish.....	---	---	---	---	---	---	---	---	597	331	203	66	1,197
Salmon.....	---	---	---	---	12	14	---	19	---	---	---	---	45
Sanddab.....	---	---	---	---	8	---	6	20	68	---	---	---	102
Sardine, Pacific.....	---	---	---	---	7,850	11,500	---	---	550	---	---	---	19,900
Sculpin.....	1,747	870	474	5,681	2,876	7,444	5,598	6,722	710	511	281	594	33,508
Sea bass, giant.....	---	---	---	---	252	204	418	594	524	367	230	62	2,651
Seabass, white.....	37,402	9,115	7,771	7,282	8,920	20,917	50,774	71,197	6,750	3,017	8,844	6,304	238,293
Shark.....	5,700	895	1,434	4,284	20,157	42,596	40,277	7,475	9,556	5,460	17,782	5,974	161,590
Sheephead, California.....	394	154	7	21	75	21	389	31	36	---	---	---	1,128
Sole, English.....	---	---	---	---	---	---	12	20	---	---	---	---	32
Sole, petrale.....	12	---	---	---	---	---	---	---	163	8	---	---	183

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Sole, miscellaneous	3	73	---	457	307	333	189	74	3,658	665	16	---	5,775
Scorfish	---	---	---	---	---	4,917	19,894	33,112	37,126	64,336	6,953	---	166,338
Tuna, albacore	---	---	---	---	---	---	592	12,000	56,232	711,310	67,993	---	847,667
Tuna, bluefin	---	---	---	---	---	424	825	53	---	---	---	---	1,302
Tuna, skipjack	1,949	4,465	---	---	---	---	---	---	---	---	---	---	6,414
Tuna, yellowfin	150	1,539	---	---	---	---	---	---	---	---	---	9,755	11,444
Turbot	---	---	---	---	---	33	---	---	---	---	---	---	33
Whitefish, ocean	82	422	---	516	66	9	---	7	78	---	223	---	1,403
Yellowtail	3,855	4,004	121	2,372	7,896	16,244	4,245	3,065	11,535	7,184	2,677	380	63,578
Miscellaneous	---	---	20	---	2	62	55	---	3	---	---	---	142
Crustacean:													
Crab, rock	5,253	6,281	7,007	7,234	4,070	1,856	1,533	1,323	1,102	1,935	1,551	3,938	43,083
Lobster, California spiny	10,736	7,388	3,608	---	---	---	---	---	---	41,451	15,353	10,112	88,648
Echinoderm:													
Sea urchin	---	---	---	---	---	---	---	---	---	---	---	2,400	2,400
Mollusk:													
Abalone, black	---	---	235	4,435	21,745	17,229	43,390	---	5,632	8,800	2,101	6,372	109,939
Abalone, flat	---	---	---	---	---	---	---	---	---	1	---	---	1
Abalone, green	998	443	1,863	6,679	4,396	3,418	8,073	---	1,111	1,163	991	864	29,999
Abalone, pink	4,126	---	6,519	10,509	7,789	11,963	23,887	2,350	10,251	8,556	6,115	11,897	103,962
Abalone, pinto	---	---	15	---	---	---	---	---	---	---	---	---	15
Abalone, red	6,240	---	4,827	10,368	6,131	4,010	2,362	37	6,785	7,266	4,962	15,176	68,174
Abalone, threaded	214	---	164	127	53	12	72	---	103	366	384	214	1,709
Abalone, white	---	---	---	---	---	---	---	---	---	---	---	---	---
Oyster, giant Pacific	4,687	---	1,048	1,316	208	878	2,901	---	2,822	5,283	5,234	6,807	31,184
Snail, sea	12	---	---	---	---	---	---	---	---	---	---	---	12
Squid, market	171	---	---	---	1,086	1,277	---	---	---	---	5,382	35	106,719
---	---	---	---	---	---	---	---	---	---	---	---	93,803	---
Total pounds	135,636	126,703	88,938	156,426	179,798	213,126	257,705	194,055	226,147	966,934	247,481	372,738	3,165,697
Waters north of State:													
Fish:													
Tuna, albacore	---	---	---	---	---	---	---	---	25,686	119,101	---	---	144,787
Total pounds	---	---	---	---	---	---	---	---	25,686	119,101	---	---	144,787

MARINE FISH LANDINGS FOR 1973

Waters south of State:															
Fish:															
Barrauda, California.....	102,837	117,417	1,602	57,196	58	213,163	1,023,801	650,655	747,314	650,536	825,686	514,018	139,591	5,052,816	58
Bonito, Pacific.....	---	---	---	1,049	---	---	---	---	---	---	---	---	---	1,049	---
Dolphinfish.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Grouper.....	---	---	---	---	---	---	---	---	---	---	---	---	---	1,150	---
Halibut, California.....	41	---	---	---	40	439	102	64	---	---	---	17	---	703	---
Mackerel, Pacific.....															
Perch.....	---	1,899	---	1,375	---	585	377	560	78	---	---	---	---	5,106	78
Rockfish.....	39	9,948	---	9,604	---	11,752	3,187	3,480	310	---	---	---	9,689	55,053	560
Sculpin.....	---	---	---	---	---	8	34,322	60,590	25,348	335	1,646	---	---	120,603	---
Sea bass, giant.....	---	---	---	---	200	1,083	1,277	2,238	---	5,728	224	---	1,166	11,933	---
Seabass, white.....	227	431	---	2,272	---	15,152	13,554	25,130	398	---	---	203	4,057	61,424	---
Shark.....	---	---	---	30	---	4,248	4,901	6,736	---	22	---	---	6,294	22,231	---
Sole, miscellaneous.....	---	---	---	---	---	---	---	---	---	---	---	---	29	1,988	---
Swordfish.....	---	---	---	---	---	---	---	---	---	372	---	174	---	---	---
Tuna, albacore.....	---	---	---	---	---	---	60,422	33,011	606	17,350	101,628	---	---	212,411	---
Tuna, bigeye.....	---	---	---	---	---	---	207	129,677	84,653	28,764	---	---	---	243,301	---
Tuna, bluefin.....	---	---	---	---	---	---	715,578	1,691,240	2,271,742	2,646,893	583,273	---	---	8,109,706	---
Tuna, skipjack.....	41,297	163,467	---	195,898	430,495	2,004,459	1,963,906	1,696,575	961,557	398,280	755,428	300,980	---	11,397,046	---
Tuna, skipjack, black.....	2,329	1,012	---	9,543	1,644	---	96,445	---	---	---	6,950	142,618	---	317,706	---
Tuna, yellowfin.....	125,770	1,951,011	---	1,374,100	6,900,772	10,849,524	4,668,945	2,757,845	981,652	1,808,319	3,757,492	110,502	---	42,002,488	---
Wahoo.....	163	---	---	---	2,202	---	---	---	---	---	146	1,258,124	---	4,133	---
Yellowtail.....	70	---	---	153	---	3,079	6,828	2,763	1,202	715	463	---	196	15,617	---
Squid, market.....															
Total pounds.....	272,610	2,245,185	1,581,424	7,407,090	---	13,103,492	8,594,162	6,970,672	5,080,490	5,466,294	6,033,062	3,607,607	7,274,651	67,636,739	503
Central Pacific Islands:															
Fish:															
Tuna, albacore.....	---	---	---	---	---	---	15,230	---	---	---	---	---	---	15,230	---
Total pounds.....	---	---	---	---	---	---	15,230	---	---	---	---	---	---	15,230	---
SHIPMENTS:*															
Fish:															
Tuna, albacore.....	87,426	133,979	119,879	100,928	14,402	41,874	101,951	495,927	1,214,861	1,575,334	204,867	78,486	---	4,155,512	---
Tuna, bigeye.....	---	---	---	---	---	---	---	2,814	19,921	25,608	45,260	3,256	---	111,261	---
Tuna, bluefin.....	---	---	---	---	---	---	158,179	128,100	321,402	4,006,656	4,423,849	8,227,594	---	286,279	---
Tuna, skipjack.....	478,927	545,710	37,597	1,803,916	3,059,621	2,519,794	711,081	321,402	1,645,304	970,559	287,547	284,231	1,670,459	26,392,289	---
Tuna, yellowfin.....	956,100	711,155	581,780	3,059,621	---	913,628	2,451,593	1,251,453	835,114	---	---	---	212,123	12,514,804	---
Total pounds.....	1,522,453	1,390,844	739,256	4,978,867	3,475,196	3,475,196	3,422,804	2,199,696	3,715,200	6,578,157	4,961,523	8,593,567	1,882,582	43,460,145	---
Grand total.....	1,930,699	3,762,732	2,408,618	12,542,383	16,758,486	16,758,486	12,246,332	9,428,073	8,989,745	12,296,384	12,080,620	12,448,655	9,529,871	114,422,598	---

TABLE 15

Value of Landings and Shipments of Commercial Fish Into California by Area, 1973

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy.....	---	796,194	8,077,468	33,427,650	222,970,297	262	265,271,871
Barracuda, California..	---	\$67,136	\$219,087	\$859,448	\$5,500,433	\$38	\$6,646,142
Blacksmith.....	---	---	---	106	31,222	6,277	37,605
Bonito, Pacific.....	---	---	---	\$27	\$14,747	\$1,997	\$16,771
Butterfish, Pacific.....	---	---	---	---	12,000	---	12,000
Cabezon.....	---	---	---	---	\$360	---	\$360
Croaker, white.....	---	6,508	15,540	1,686,709	23,728,794	5,150,180	30,787,731
Dolphinfish.....	---	\$694	\$1,363	\$185,283	\$2,444,652	\$570,029	\$3,202,021
Eel.....	---	234	\$1,142	407	81,107	53	94,943
Flounder.....	---	\$248	\$9,127	\$102	\$33,628	\$21	\$43,126
Flounder, arrowtooth..	---	721	512	1,016	2,301	5	4,554
Flyingfish.....	---	\$58	\$42	\$111	\$98	\$1	\$310
Grouper.....	---	---	42,213	101,683	105	82,182	227,096
Hake, Pacific.....	---	---	\$9,276	\$10,526	\$16	\$11,412	\$31,466
Halibut, California.....	---	---	---	---	4,070	1,974	6,044
Herring, Pacific.....	---	---	---	---	\$627	\$447	\$1,074
Lingcod.....	---	---	---	---	160	28	382
Mackerel, jack.....	---	---	---	---	160	\$7	\$52
Mackerel, Pacific.....	---	---	---	---	\$32	---	---
Mudsucker, longjaw...	---	---	---	---	---	738	714,903
Mullet.....	---	---	---	---	---	\$168	\$64,556
Opaleye.....	---	---	---	---	---	---	---
Perch.....	---	---	---	---	---	---	---
Queenfish.....	---	---	---	---	---	---	---
Rockfish.....	---	---	---	---	---	---	---
Sablefish.....	---	---	---	---	---	---	---
Salmon.....	---	---	---	---	---	---	---
Sanddab.....	---	---	---	---	---	---	---
Sardine, Pacific.....	---	---	---	---	---	---	---
Sargo.....	---	---	---	---	---	---	---
Sculpin.....	---	---	---	---	---	---	---
Seabass, giant.....	---	---	---	---	---	---	---
Seabass, white.....	---	---	---	---	---	---	---
Senorita.....	---	---	---	---	---	---	---
Shark.....	---	---	---	---	---	---	---
69,396	524,990	105,972	68,386	13,807	---	---	---
	\$43,652	\$9,093	\$10,152	\$1,491	---	---	---
	223,617	12,627	---	---	---	---	---
	\$11,581	\$653	---	---	---	---	---
	---	---	---	---	160,981	---	---
	---	---	---	---	\$32,197	---	---
	61,350	9,510	---	---	---	---	---
	\$3,067	\$475	---	---	---	---	---
	---	---	---	---	---	1,150	---
	14,065	---	1,150	18,960	---	\$632	---
	\$724	---	\$23	\$379	---	---	---
	---	---	---	---	2,767	9,012	11,779
	50	34,522	52,046	137,609	\$731	\$2,624	\$3,355
	\$35	\$16,960	\$29,043	\$89,911	20,106	29,193	273,526
	24,155	2,110,650	684,662	---	\$11,416	\$18,382	\$159,747
	\$982	\$69,838	\$36,860	---	---	---	---
	1,613,362	543,180	617,609	784,355	603	512	3,559,821
	\$177,489	\$53,940	\$74,676	\$82,304	\$125	\$85	\$388,619
	---	7,049	483,085	23,380	20,008,494	93,819	20,615,827
	---	\$455	\$27,745	\$3,347	\$955,967	\$4,141	\$991,655
	---	541	---	45	53,206	3,056	56,848
	---	\$27	---	\$7	\$3,598	\$705	\$4,337
	---	1,286	---	---	---	---	1,286
	---	\$3,678	---	---	---	---	\$3,678
	---	---	---	---	---	2,599	2,599
	---	---	---	74	23,276	\$1,040	\$1,040
	---	---	---	\$44	\$4,242	33	---
	29,323	31,594	7,959	15,877	33,038	20,209	138,000
	\$7,040	\$12,132	\$1,807	\$5,540	\$6,493	\$5,416	\$38,428
	---	---	---	---	39,300	106	39,406
	---	---	---	---	\$1,315	\$18	\$1,333
	5,903,091	3,066,110	7,776,667	3,876,731	617,155	612,681	22,052,455
	\$493,968	\$294,305	\$768,682	\$377,705	\$124,464	\$192,239	\$2,251,363
	6,027,249	1,590,033	888,403	15,766	27,423	1,197	8,550,071
	\$463,460	\$123,477	\$69,301	\$940	\$3,262	\$130	\$660,570
	5,700,647	2,226,719	1,412,520	328,000	1,053	45	9,668,984
	\$4,868,630	\$2,303,744	\$1,451,184	\$366,563	\$1,298	\$47	\$8,991,466
	549,044	172,925	181,675	228	27	102	904,001
	\$78,605	\$24,775	\$20,461	\$22	\$6	\$25	\$123,894
	---	---	---	---	131,699	19,900	151,599
	---	---	---	---	\$21,756	\$4,975	\$26,731
	---	---	---	---	295	---	295
	---	---	---	---	\$71	---	\$71
	---	---	---	---	4,749	154,111	158,860
	---	---	---	---	\$2,024	\$56,406	\$58,430
	---	---	---	434	75,816	14,587	90,837
	---	---	---	\$109	\$25,064	\$5,334	\$30,507
	---	39	20,611	77,512	411,026	299,717	808,905
	---	\$27	\$11,227	\$43,430	\$233,750	\$186,584	\$475,018
	---	---	---	---	5,375	---	5,375
	---	---	---	---	\$161	---	\$161
	6,815	48,096	48,484	57,004	74,474	183,821	418,894
	\$687	\$3,923	\$4,267	\$10,178	\$14,271	\$49,110	\$82,433

TABLE 15

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sheephead, California..	-----	-----	-----	229	1,715	1,128	3,072
Skate.....	24,527	2,745	106,161	\$21	\$268	\$184	\$473
Smelt.....	\$2,402	\$143	\$2,771	-----	-----	-----	133,433
Smelt.....	632,267	9,641	36,880	31	246,221	-----	\$5,316
Smelt, whitebait.....	\$50,162	\$1,724	\$4,729	\$12	\$14,493	-----	925,040
Smelt, whitebait.....	372,885	9,255	-----	-----	-----	-----	\$71,120
Smelt, whitebait.....	\$48,102	\$1,636	-----	-----	-----	-----	382,140
Sole, Dover.....	18,045,201	4,262,521	116,448	61,555	-----	-----	\$49,738
Sole, Dover.....	\$1,821,711	\$438,262	\$10,154	\$6,177	-----	-----	22,485,725
Sole, English.....	1,578,985	891,599	405,864	333,253	-----	32	\$2,276,304
Sole, English.....	\$210,617	\$131,979	\$54,019	\$41,823	-----	\$9	\$3,209,733
Sole, petrale.....	1,363,726	763,851	290,289	458,864	76	183	\$444,447
Sole, petrale.....	\$270,383	\$147,981	\$84,330	\$86,046	\$20	\$73	\$2,876,989
Sole, rex.....	1,216,254	242,339	68,941	57,200	-----	-----	\$558,833
Sole, rex.....	\$175,685	\$36,402	\$7,915	\$7,876	-----	-----	\$584,734
Sole, sand.....	104,748	112,526	5,774	17,294	-----	-----	\$227,878
Sole, sand.....	\$17,045	\$18,599	\$908	\$2,893	-----	-----	\$39,445
Sole, miscellaneous.....	772	9,078	4,727	3,372	646	5,804	24,399
Sole, miscellaneous.....	\$48	\$1,431	\$756	\$459	\$99	\$1,788	\$4,581
Swordfish.....	-----	-----	-----	95,918	349,700	167,926	613,544
Swordfish.....	-----	-----	-----	\$122,746	\$436,863	\$213,188	\$772,797
Tuna, albacore.....	1,060,991	378,804	343,960	3,325,782	2,311,220	1,220,095	8,640,852
Tuna, albacore.....	\$414,357	\$150,704	\$135,514	\$1,317,670	\$957,556	\$506,500	\$3,482,301
Tuna, bigeye.....	-----	-----	-----	661,892	243,301	-----	\$95,193
Tuna, bigeye.....	-----	-----	-----	\$159,481	\$58,027	-----	\$217,508
Tuna, bluefin.....	-----	-----	-----	12,076,199	8,111,008	20,187,207	20,187,207
Tuna, bluefin.....	-----	-----	-----	\$2,852,215	\$1,872,099	\$4,724,314	\$4,724,314
Tuna, skipjack.....	-----	-----	-----	18,405,821	11,403,460	29,809,281	29,809,281
Tuna, skipjack.....	-----	-----	-----	\$4,152,391	\$2,560,284	\$6,712,675	\$6,712,675
Tuna, skipjack, black.....	-----	-----	-----	1,074,287	317,706	1,391,993	1,391,993
Tuna, skipjack, black.....	-----	-----	-----	\$80,655	\$23,828	-----	\$104,483
Tuna, yellowfin.....	-----	-----	-----	190,780,029	42,013,932	232,793,961	232,793,961
Tuna, yellowfin.....	-----	-----	-----	\$45,896,063	\$10,105,454	\$56,001,517	\$56,001,517
Turbot.....	9,325	23,978	175	2,889	-----	33	36,400
Turbot.....	\$1,431	\$1,638	\$9	\$284	-----	\$10	\$3,372
Wahoo.....	-----	-----	-----	-----	10,921	4,137	15,058
Wahoo.....	-----	-----	-----	-----	\$4,046	\$1,173	\$5,219
Whitefish, ocean.....	-----	-----	-----	41	140	1,403	1,584
Whitefish, ocean.....	-----	-----	-----	\$8	\$16	\$227	\$251
Yellowtail.....	-----	-----	-----	647	155,780	79,195	235,622
Yellowtail.....	-----	-----	-----	\$169	\$23,423	\$14,772	\$38,364
Miscellaneous.....	1	2	208	74	251	142	678
Miscellaneous.....	\$1	\$2	\$51	\$13	\$93	\$61	\$221
Miscellaneous (animal food).....	3,925	750	317,906	-----	-----	-----	322,581
Miscellaneous (animal food).....	\$412	\$15	\$6,359	-----	-----	-----	\$6,786
Crustacean:							
Crab, dungeness.....	610,876	338,674	699	72,624	-----	-----	1,022,873
Crab, dungeness.....	\$476,242	\$324,420	\$702	\$66,148	-----	-----	\$867,512
Crab, pelagic red.....	-----	-----	-----	-----	95,725	-----	95,725
Crab, pelagic red.....	-----	-----	-----	-----	\$13,184	-----	\$13,184
Crab, rock.....	1,910	195	1,040	228,195	681,365	43,083	955,788
Crab, rock.....	-----	\$19	\$65	\$23,542	\$115,579	\$8,941	\$148,146
Lobster, California spiny.....	-----	-----	-----	59,756	84,775	88,648	233,179
Lobster, California spiny.....	-----	-----	-----	\$100,766	\$145,192	\$151,250	\$397,208
Prawn, spot.....	-----	-----	15,052	9,332	-----	-----	24,384
Prawn, spot.....	-----	-----	\$20,232	\$8,654	-----	-----	\$28,886
Shrimp, Pacific ocean.....	993,835	246,031	-----	110	-----	-----	1,239,976
Shrimp, Pacific ocean.....	\$179,261	\$40,615	-----	\$16	-----	-----	\$219,892
Echinoderm:							
Sea urchin.....	5,000	5,098	696	3,444,234	137,267	2,400	3,594,695
Sea urchin.....	\$250	\$400	\$56	\$267,546	\$11,299	\$216	\$279,767
Mollusk:							
Abalone, black.....	-----	-----	-----	1,334,095	468,915	109,939	1,912,949
Abalone, black.....	-----	-----	-----	\$254,137	\$78,726	\$18,156	\$351,019
Abalone, flat.....	-----	-----	-----	-----	-----	1	1
Abalone, flat.....	-----	-----	-----	-----	-----	\$1	\$1
Abalone, green.....	-----	-----	-----	3,206	123,599	29,999	156,804
Abalone, green.....	-----	-----	-----	\$1,935	\$65,027	\$17,247	\$84,209
Abalone, pink.....	-----	-----	-----	139,748	127,642	103,962	371,352
Abalone, pink.....	-----	-----	-----	\$79,932	\$69,729	\$56,562	\$206,223
Abalone, pinto.....	-----	-----	-----	-----	-----	15	15
Abalone, pinto.....	-----	-----	-----	-----	-----	\$5	\$5

TABLE 15
Value of Landings and Shipments of Commercial
Fish Into California by Area, 1973—Continued

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Abalone, red.....	-----	21,715	-----	568,770	5,260	68,174	683,919
	-----	\$11,892	-----	\$327,289	\$2,672	\$40,885	\$382,738
Abalone, threaded.....	-----	-----	-----	3,018	261	1,709	5,008
	-----	-----	-----	\$891	\$102	\$505	\$1,498
Abalone, white.....	-----	-----	-----	1,512	50,416	31,184	83,112
	-----	-----	-----	\$1,110	\$29,854	\$20,392	\$51,356
Octopus.....	16,860	5,191	700	483	114	-----	23,348
	\$2,621	\$706	\$230	\$67	\$44	-----	\$3,668
Oyster, eastern.....	-----	1,148	-----	-----	-----	-----	1,148
	-----	\$4,018	-----	-----	-----	-----	\$4,018
Oyster, giant Pacific.....	567,557	144,963	-----	13,207	-----	12	725,739
	\$652,691	\$166,707	-----	\$8,188	-----	\$14	\$827,600
Snail, sea.....	-----	-----	-----	145	413	35	593
	-----	-----	-----	\$14	\$43	\$7	\$64
Squid, market.....	-----	-----	1,240,970	1,488,840	9,224,600	107,222	12,061,632
	-----	-----	\$65,976	\$31,112	\$329,694	\$7,788	\$434,570
Miscellaneous mollusk.....	-----	-----	212	-----	-----	-----	212
	-----	-----	\$15	-----	-----	-----	\$15
Total pounds.....	47,288,124	18,276,028	23,092,715	52,709,390	505,675,965	70,962,453	718,004,675
Total value.....	\$10,479,399	\$4,474,184	\$3,104,094	\$4,784,847	\$64,886,929	\$16,780,573	\$104,510,026
SHIPMENTS:*							
Fish:							
Tuna, albacore.....	-----	-----	-----	-----	60,851,497	4,155,512	65,007,009
	-----	-----	-----	-----	\$30,534,742	\$2,070,068	\$32,604,810
Tuna, bigeye.....	-----	-----	-----	-----	771,181	111,261	882,442
	-----	-----	-----	-----	\$286,878	\$49,889	\$336,767
Tuna, bluefin.....	-----	-----	-----	-----	6,885,632	286,279	7,171,911
	-----	-----	-----	-----	\$2,215,289	\$66,130	\$2,281,419
Tuna, skipjack.....	-----	-----	-----	-----	142,636,401	26,392,289	169,028,690
	-----	-----	-----	-----	\$42,457,674	\$8,188,853	\$50,646,527
Tuna, skipjack, black.....	-----	-----	-----	-----	47,359	-----	47,359
	-----	-----	-----	-----	\$2,795	-----	\$2,795
Tuna, yellowfin.....	-----	-----	-----	-----	33,775,077	12,514,804	46,289,881
	-----	-----	-----	-----	\$12,030,058	\$4,159,279	\$16,189,337
Total pounds.....	-----	-----	-----	-----	244,967,147	43,460,145	288,427,292
Total value.....	-----	-----	-----	-----	\$87,527,436	\$14,534,219	\$102,061,655
GRAND TOTAL POUNDS	47,288,124	18,276,028	23,092,715	52,709,390	750,643,112	114,422,598	1,006,431,967
GRAND TOTAL VALUE	\$10,479,399	\$4,474,184	\$3,104,094	\$4,784,847	\$152,414,365	\$31,314,792	\$206,571,681

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 16
Value of Landings by Port, Eureka Area, 1973

	Pounds	Value
Eureka		
Salmon.....	2,247,252	\$1,918,530
Dover sole.....	10,391,849	1,049,085
Giant Pacific oyster.....	567,557	652,691
Rockfish.....	2,953,521	244,351
Sablefish.....	3,101,734	238,505
Albacore.....	461,238	180,131
Dungeness crab.....	223,096	173,927
Petrale sole.....	821,520	162,881
Rex sole.....	692,482	100,027
English sole.....	713,945	97,944
Lingcod.....	611,220	67,241
Sanddab.....	451,609	64,656
Smelt.....	603,404	47,212
Whitebait smelt.....	281,355	36,295
Flounder.....	271,698	22,591
Pacific ocean shrimp.....	63,008	11,365
Arrowtooth flounder.....	99,499	5,153
Sand sole.....	23,395	3,807
Perch.....	12,934	3,125
Grenadiers.....	58,660	2,933
Octopus.....	7,727	1,202
All other species.....	36,501	2,959
Port totals.....	24,695,204	\$5,086,611
Fort Bragg		
Salmon.....	2,449,334	\$2,146,728
Dover sole.....	3,156,355	318,642
Albacore.....	539,128	210,550
Sablefish.....	1,878,023	144,409
Rockfish.....	1,603,211	136,231
Petrale sole.....	319,783	63,403
Dungeness crab.....	70,077	54,632
Lingcod.....	453,647	49,907
English sole.....	181,793	24,940
Rex sole.....	97,164	14,035
Whitebait smelt.....	35,891	4,630
Arrowtooth flounder.....	70,109	3,631
Smelt.....	27,312	2,819
Octopus.....	7,896	1,227
Pacific ocean shrimp.....	3,410	615
All other species.....	17,494	1,569
Port totals.....	10,910,627	\$3,177,968
Crescent city		
Salmon.....	737,244	\$596,007
Dover sole.....	4,496,997	453,984
Dungeness crab.....	259,630	202,409
Pacific ocean shrimp.....	927,417	167,281
Rockfish.....	1,340,652	112,867
English sole.....	683,247	93,733
Sablefish.....	1,047,431	80,541
Rex sole.....	426,608	61,623
Lingcod.....	545,566	60,019
Petrale sole.....	222,418	44,098
Albacore.....	60,625	23,676
Flounder.....	253,102	21,045
Sanddab.....	92,229	13,204
Sand sole.....	81,143	13,204
Whitebait smelt.....	55,639	7,177
Perch.....	16,289	3,915
All other species.....	47,967	3,724
Arrowtooth flounder.....	54,009	2,797
Port totals.....	11,348,313	\$1,951,304

TABLE 16
Value of Landings by Port, Eureka Area, 1973—Continued

	Pounds	Value
Trinidad		
Salmon.....	153,803	\$119,679
Dungeness crab.....	58,073	45,274
All other species.....	957	88
Port totals.....	212,833	\$165,041
Albion		
Salmon.....	60,240	\$53,214
All other species.....	6,235	596
Port totals.....	66,475	\$53,810
All other ports		
Salmon.....	52,774	\$44,472
All other species.....	1,898	193
Totals.....	54,672	\$44,665
EUREKA AREA TOTALS	47,288,124	\$10,479,399

TABLE 17
Value of Landings by Port, San Francisco Area, 1973

	Pounds	Value
San Francisco		
Dover sole.....	2,611,100	\$268,467
Rockfish.....	2,381,679	231,244
Dungeness crab.....	145,211	139,099
Petrale sole.....	662,271	128,302
Salmon.....	114,605	118,918
English sole.....	593,790	87,896
Sablefish.....	1,004,589	78,013
Lingcod.....	416,177	41,329
Rex sole.....	193,524	29,069
Sanddab.....	150,572	21,573
Sand sole.....	110,242	18,221
Albacore.....	35,999	14,322
California halibut.....	20,815	10,226
Pacific herring.....	263,649	8,724
Flounder.....	84,306	7,234
Shark.....	31,635	2,580
White croaker.....	7,714	1,695
Turbot.....	23,254	1,588
All other species.....	21,343	3,025
Port totals.....	8,872,475	\$1,211,534
Bodega Bay		
Salmon.....	775,524	\$801,461
Dover sole.....	1,117,006	114,848
Dungeness crab.....	69,558	66,630
Rockfish.....	495,844	45,471
English sole.....	287,369	42,538
Pacific ocean shrimp.....	246,031	40,615
Sablefish.....	298,480	23,179
Petrale sole.....	91,649	17,755
Lingcod.....	116,634	11,582
Albacore.....	24,326	9,678
Rex sole.....	42,131	6,329
Sanddab.....	18,888	2,706
Whitebait smelt.....	8,098	1,431
Smelt.....	5,664	1,019
All other species.....	40,954	3,655
Port totals.....	3,638,156	\$1,188,897
Princeton		
Salmon.....	772,321	\$801,229
Dungeness crab.....	86,708	83,050
Red abalone.....	21,715	11,892
California halibut.....	13,035	6,404
Rockfish.....	58,576	5,775
All other species.....	31,011	2,941
Port totals.....	983,366	\$911,300
Sausalito		
Salmon.....	288,697	\$299,671
Albacore.....	212,256	84,444
Anchovy.....	795,544	67,081
Dover sole.....	324,079	33,321
Pacific herring.....	644,239	21,317
Sablefish.....	229,377	17,813
Rockfish.....	83,322	7,851
Dungeness crab.....	3,391	3,248
Petrale sole.....	9,404	1,822
All other species.....	29,339	3,457
Port totals.....	2,619,648	\$540,025
Point Reyes		
Giant Pacific oyster.....	128,035	\$147,240
Salmon.....	125,154	130,789
Dungeness crab.....	14,097	13,504
All other species.....	2,639	244
Port totals.....	269,925	\$291,777

TABLE 17
Value of Landings by Port, San Francisco Area, 1973—Continued

	Pounds	Value
Oakland		
Salmon	126,063	\$126,869
Albacore	105,809	42,095
Dover sole	210,336	21,626
Dungeness crab	14,120	13,526
Sablefish	57,526	4,467
Rockfish	40,839	3,359
All other species	12,436	1,795
Port totals	567,129	\$213,737
Marshall		
Pacific herring	1,040,110	\$34,416
All other species	3,170	1,399
Port totals	1,043,280	\$35,815
Tomales Bay		
Giant Pacific oyster	16,928	\$19,467
Eastern oyster	1,148	4,018
Perch	9,801	3,775
All other species	11,241	1,046
Port totals	39,118	\$28,306
Berkeley		
Salmon	20,647	\$20,975
Dungeness crab	4,659	4,463
Perch	3,053	1,183
All other species	4,397	465
Port totals	32,756	\$27,086
Richmond		
White croaker	29,823	\$6,554
Perch	11,025	4,222
Salmon	3,572	3,688
All other species	1,539	364
Port totals	45,959	\$14,828
San Leandro		
Pacific herring	155,682	\$5,151
Port totals	155,682	\$5,151
All other ports		
Longjaw mudsucker	1,286	\$3,678
Perch	2,979	1,138
All other species	4,269	912
Totals	8,534	\$5,728
SAN FRANCISCO AREA TOTALS	18,276,028	\$4,474,184

TABLE 18
Value of Landings by Port, Monterey Area, 1973

	Pounds	Value
Monterey		
Rockfish	7,612,270	\$749,082
Salmon	476,555	488,787
Lingcod	571,156	69,059
Sablefish	860,264	67,106
Market squid	1,158,170	61,574
Petrale sole	228,251	42,719
English sole	304,818	40,570
Anchovy	1,418,805	38,483
Jack mackerel	461,018	26,478
Spot prawn	15,052	20,232
Pacific herring	315,710	16,997
Sanddab	128,541	14,477
Albacore	36,012	14,188
Dover sole	90,500	7,891
White croaker	75,700	7,836
California halibut	13,526	7,548
Rex sole	64,868	7,447
Shark	36,489	3,165
Pacific butterfish	4,420	3,070
Smelt	17,380	2,167
Flounder	12,042	1,762
Skate	65,773	1,717
All other species	12,803	2,420
Port totals	13,980,123	\$1,694,725
Moss Landing		
Salmon	823,154	\$845,974
Anchovy	6,658,663	180,604
Albacore	305,799	120,479
Pacific herring	368,641	19,846
Rockfish	137,079	16,325
English sole	100,432	13,367
Petrale sole	61,365	11,485
Sanddab	52,964	5,965
Lingcod	40,822	4,936
Market squid	82,800	4,402
Smelt	18,035	2,416
California halibut	4,226	2,358
Dover sole	25,943	2,263
Sablefish	27,754	2,165
Flounder	9,982	1,460
Jack mackerel	21,537	1,237
Pacific bonito	11,651	1,022
All other species	47,989	3,776
Port totals	8,798,841	\$1,240,080
Santa Cruz		
Salmon	112,811	\$116,473
California halibut	34,294	19,137
White seabass	20,129	10,964
Flounder	47,372	6,930
Pacific butterfish	8,722	6,057
Rockfish	27,338	3,275
White croaker	23,483	2,431
All other species	39,602	4,022
Port totals	313,751	\$169,289
MONTEREY AREA TOTALS	23,092,715	\$3,104,094

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1973

	Pounds	Value
Morro Bay		
Albacore.....	1,920,290	\$760,816
Rockfish.....	2,141,389	208,941
Salmon.....	153,470	171,473
Red abalone.....	100,354	57,747
Lingcod.....	525,890	55,183
Petrale sole.....	239,826	44,972
Dungeness crab.....	48,749	44,402
Sea urchin.....	281,993	21,905
White seabass.....	23,596	13,221
Giant Pacific oyster.....	13,207	8,188
California halibut.....	10,564	6,442
English sole.....	44,144	5,540
Rex sole.....	21,955	3,023
Perch.....	6,047	2,057
Rock crab.....	13,467	1,389
Shark.....	7,440	1,267
All other species.....	36,366	3,927
Port totals.....	5,588,747	\$1,410,493
Santa Barbara		
Black abalone.....	1,331,054	\$253,558
Red abalone.....	424,257	244,131
Sea urchin.....	2,810,020	218,281
Rockfish.....	1,301,906	123,207
Swordfish.....	64,931	83,092
Pink abalone.....	134,338	76,838
California spiny lobster.....	37,638	63,468
California halibut.....	84,730	51,666
Pacific bonito.....	265,566	26,080
White seabass.....	46,501	26,055
English sole.....	202,390	25,400
Petrale sole.....	91,105	17,084
Rock crab.....	109,304	11,277
Spot prawn.....	9,332	8,654
Miscellaneous (animal food).....	274,386	5,488
Rex sole.....	32,850	4,523
Dover sole.....	26,360	2,645
Lingcod.....	23,857	2,503
Shark.....	13,230	2,352
Albacore.....	5,895	2,336
Green abalone.....	3,206	1,935
All other species.....	5,303	2,173
Port totals.....	7,298,159	\$1,252,746
Port Hueneme		
Anchovy.....	33,427,650	\$859,448
Pacific bonito.....	1,612,533	158,358
Market squid.....	1,488,840	31,112
Swordfish.....	22,656	28,993
California halibut.....	18,112	11,044
Sea urchin.....	91,046	7,072
Shark.....	24,113	4,472
California spiny lobster.....	1,847	3,115
White seabass.....	5,123	2,870
Jack mackerel.....	17,800	2,548
Rock crab.....	18,437	1,902
All other species.....	18,362	3,377
Port totals.....	36,746,519	\$1,114,311

TABLE 19

Value of Landings by Port, Santa Barbara Area, 1973—Continued

	Pounds	Value
Avila		
Albacore.....	1,399,597	\$554,518
Salmon.....	174,289	194,811
Rockfish.....	407,515	41,692
Red abalone.....	43,829	25,221
Lingcod.....	234,608	24,618
Petrale sole.....	127,809	23,967
Dungeness crab.....	23,862	21,734
English sole.....	83,872	10,526
Rock crab.....	83,283	8,592
California halibut.....	12,905	7,869
Perch.....	9,808	3,475
Dover sole.....	29,625	2,973
Sand sole.....	17,224	2,881
All other species.....	88,863	5,226
Port totals.....	2,737,089	\$928,103
Oxnard		
California spiny lobster.....	19,936	\$33,618
Sea urchin.....	150,586	11,697
Swordfish.....	7,729	9,891
California halibut.....	11,274	6,875
Rockfish.....	18,205	2,858
Pink abalone.....	4,029	2,304
All other species.....	6,291	976
Port totals.....	218,050	\$68,219
Ventura		
Sea urchin.....	110,589	\$8,591
All other species.....	10,237	2,384
Port totals.....	120,826	\$10,975
SANTA BARBARA AREA TOTALS	52,709,390	\$4,784,847

TABLE 20

Value of Landings and Shipments by Port, Los Angeles Area, 1973

	Pounds	Value
Terminal Island		
Landings:		
Yellowfin tuna.....	190,328,406	\$45,787,416
Anchovy.....	220,719,010	5,444,896
Skipjack tuna.....	18,400,789	4,151,256
Bluefin tuna.....	11,441,866	2,702,395
Pacific bonito.....	20,951,273	2,158,499
Albacore.....	2,299,173	952,564
Jack mackerel.....	17,243,948	823,883
Bigeye tuna.....	661,892	159,481
Black skipjack tuna.....	1,074,287	80,655
Smelt.....	53,000	3,122
Sea urchin.....	33,242	2,736
Pacific mackerel.....	40,162	2,716
Wahoo.....	7,217	2,674
Market squid.....	67,000	2,395
All other species.....	55,622	7,533
Total landings.....	483,376,887	\$62,282,221
Shipments:*		
Skipjack tuna.....	142,636,401	\$42,457,674
Albacore.....	60,851,497	30,534,742
Yellowfin tuna.....	33,775,077	12,030,058
Bluefin tuna.....	6,885,632	2,215,289
Bigeye tuna.....	771,181	286,878
Black skipjack tuna.....	47,359	2,795
Total shipments.....	244,967,147	\$87,527,436
Port totals.....	728,344,034	\$149,809,657
San Pedro		
Landings:		
Swordfish.....	264,857	\$330,873
Market squid.....	9,156,053	327,244
Pacific bonito.....	2,599,740	267,837
White seabass.....	383,054	217,842
Bluefin tuna.....	634,333	149,820
Jack mackerel.....	2,523,111	120,549
Yellowfin tuna.....	451,623	108,647
Rockfish.....	520,868	102,115
California spiny lobster.....	56,803	97,285
Rock crab.....	505,099	85,679
Black abalone.....	468,762	78,700
Pink abalone.....	124,562	68,046
Green abalone.....	115,615	60,827
Pacific butterfish.....	81,107	33,628
Flyingfish.....	160,318	32,064
White abalone.....	50,281	29,774
Giant sea bass.....	75,539	24,972
Yellowtail.....	150,711	22,661
Pacific sardine.....	130,709	21,592
Anchovy.....	783,115	19,319
California barracuda.....	31,159	14,718
Shark.....	67,107	12,854
White croaker.....	81,369	11,299
California halibut.....	18,707	10,622
Smelt.....	139,389	8,200
Albacore.....	10,349	4,288
Sablefish.....	27,415	3,261
Red abalone.....	5,260	2,672
Opaleye.....	13,986	2,549
Sea urchin.....	26,841	2,210
Perch.....	7,292	1,966
Sculpin.....	3,853	1,642
Queenfish.....	39,300	1,315
Wahoo.....	3,385	1,254
Skipjack tuna.....	5,032	1,135
All other species.....	113,468	14,431
Port totals.....	19,830,172	\$2,293,890

* Beginning in 1965 only tuna shipments are recorded.

TABLE 20

Value of Landings and Shipments by Port, Los Angeles Area, 1973—Continued

	Pounds	Value
Newport Beach		
Landings		
Swordfish	62,073	\$77,545
Rockfish	36,442	8,629
California spiny lobster	3,022	5,176
Sea urchin	50,131	4,127
All other species	11,128	2,487
Port totals	162,796	\$97,964
Wilmington		
Landings:		
Anchovy	1,143,468	\$28,208
Jack mackerel	240,934	11,511
Pacific bonito	93,018	9,583
Swordfish	3,060	3,823
Smelt	53,832	3,171
Rock crab	7,161	1,215
All other species	10,280	4,191
Port totals	1,551,753	\$61,702
Dana Point		
Landings		
California spiny lobster	10,142	\$17,370
Swordfish	8,173	10,210
White seabass	14,809	8,422
Rockfish	31,247	7,375
Sea urchin	14,750	1,214
All other species	18,353	3,382
Port totals	97,474	\$47,973
Redondo Beach		
Landings		
Rock crab	142,984	\$24,254
California spiny lobster	7,094	12,150
Rockfish	16,427	3,469
Green abalone	6,184	3,253
Pink abalone	2,248	1,228
All other species	1,839	1,063
Port totals	176,776	\$45,417
Long Beach		
Landings:		
Anchovy	324,668	\$8,009
Pacific bonito	69,445	7,155
Rock crab	9,785	1,660
California spiny lobster	641	1,098
Sea urchin	10,015	824
All other species	2,685	1,663
Port totals	417,239	\$20,409
Malibu		
Landings:		
California spiny lobster	3,971	\$6,801
Swordfish	3,141	3,924
White seabass	3,767	2,142
Rockfish	7,683	1,813
All other species	5,317	1,045
Port totals	23,879	\$15,725
Santa Monica		
Landings:		
Swordfish	4,964	\$6,201
White seabass	6,655	3,785
All other species	3,303	515
Port totals	14,922	\$10,501

TABLE 20

Value of Landings and Shipments by Port, Los Angeles Area, 1973—Continued

	Pounds	Value
Avalon		
Landings:		
California spiny lobster	2,299	\$3,937
Swordfish	2,534	3,166
All other species	1,673	459
Port totals	6,506	\$7,562
Playa Del Rey		
Landings:		
Rock crab	13,328	\$2,261
All other species	2,259	1,112
Port totals	15,587	\$3,373
All other ports		
All species	1,974	\$192
Totals	1,974	\$192
LOS ANGELES AREA TOTALS	750,643,112	\$152,414,365

TABLE 21

Value of Landings and Shipments by Port, San Diego Area, 1973

	Pounds	Value
San Diego		
Landings:		
Yellowfin tuna	42,013,932	\$10,105,454
Skipjack tuna	11,403,460	2,560,284
Bluefin tuna	8,110,573	1,872,068
Pacific bonito	5,130,279	567,826
Albacore	1,219,573	506,283
Swordfish	158,577	201,319
Rockfish	701,513	165,748
White seabass	251,307	156,447
California spiny lobster	77,483	132,199
Bigeye tuna	243,301	58,027
Pink abalone	103,752	56,448
Sculpin	154,111	56,406
Red abalone	68,174	40,885
Shark	125,431	33,717
Black skipjack tuna	317,706	23,828
White abalone	31,184	20,392
Black abalone	109,889	18,148
Green abalone	29,637	17,039
California halibut	20,455	12,880
Yellowtail	64,415	12,015
Market squid	107,222	7,788
Rock crab	37,197	7,720
Giant sea bass	14,128	5,166
Pacific sardine	19,900	4,975
Perch	16,911	4,532
Jack Mackerel	93,819	4,141
California barracuda	5,932	1,887
Wahoo	4,137	1,173
All other species	23,866	6,263
Total landings	70,658,164	\$16,661,058
Shipments:*		
Skipjack tuna	26,392,289	\$8,188,853
Yellowfin tuna	12,514,804	4,159,279
Albacore	4,155,512	2,070,068
Bluefin tuna	286,279	66,130
Bigeye tuna	111,261	49,889
Total shipments	43,460,145	\$14,534,219
Port totals	114,118,309	\$31,195,277
Oceanside		
Landings:		
White seabass	48,201	\$30,007
Rockfish	110,246	26,271
Shark	58,390	15,393
California spiny lobster	8,622	14,711
Swordfish	9,349	11,869
California halibut	8,738	5,502
Yellowtail	14,780	2,757
Halibut	8,787	2,558
Pacific bonito	19,901	2,203
All other species	12,881	3,384
Port totals	299,895	\$114,655
All other ports		
California spiny lobster	2,543	\$4,340
All other species	1,851	520
Port totals	4,394	\$4,860
SAN DIEGO AREA TOTALS	114,422,598	\$31,314,792

* Beginning in 1965 only tuna shipments are recorded.

TABLE 22
Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1964-1973 *

Species	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Barracuda, California.....	303,070	443,304	892,697	470,480	372,246	358,518	373,801	50,474	38,243	92,483
Bass, kelp and sand.....	1,103,394	1,230,313	1,278,939	1,003,914	1,317,963	1,246,175	922,260	943,121	842,681	603,879
Bonito, Pacific.....	1,298,804	806,322	644,415	349,952	1,102,936	1,130,241	651,898	152,795	418,984	472,451
Cabezon.....	6,491	7,575	10,293	5,419	4,349	4,583	6,372	4,611	11,452	7,551
Halibut, California.....	141,465	118,213	88,726	63,582	54,663	27,634	29,968	10,598	8,140	9,622
Lingcod.....	25,263	33,260	44,676	43,559	42,449	32,693	61,833	63,239	103,065	80,778
Mackerel, jack.....	6,577	25,619	19,027	16,236	13,588	11,272	15,725	10,611	5,913	15,789
Mackerel, Pacific.....	101,219	151,896	205,090	108,366	78,933	120,036	129,770	224,223	245,882	190,104
Rockfish.....	968,801	1,347,430	1,688,718	1,894,057	2,102,559	1,978,981	2,663,882	2,222,943	3,094,959	3,570,244
Salmon.....	92,021	51,677	70,151	84,946	127,584	111,389	98,301	130,812	151,595	124,676
Sculpin.....	73,844	71,888	69,851	63,280	59,363	63,011	82,522	84,913	65,886	83,475
Seabass, white.....	14,901	9,775	3,372	3,385	4,138	4,066	4,359	5,265	3,858	7,083
Sheephead, California.....	28,824	41,651	52,967	42,676	33,075	49,626	39,464	33,300	33,541	46,234
Tuna, albacore.....	112,358	99,771	74,980	96,497	129,710	48,887	112,106	160,361	86,890	9,858
Tuna, bluefin.....	693	92	1,998	3,166	1,231	1,470	1,833	749	1,470	5,347
Whitefish, ocean.....	6,949	13,810	15,587	18,184	22,155	36,474	40,990	29,900	24,632	42,362
Yellowtail.....	39,104	18,367	31,392	31,392	58,049	79,202	97,376	44,608	59,031	221,287
All others.....	114,400	163,595	166,470	145,073	205,410	421,327	298,375	421,729	305,283	329,255
Total number of fish.....	4,434,176	4,634,568	5,408,420	4,444,164	5,731,201	5,725,575	5,630,835	4,604,152	5,462,405	5,923,478
Number of anglers.....	693,445	638,103	857,000	780,102	849,654	802,811	873,327	728,126	792,618	880,100

* See Fish Bulletin 121 for historical records 1936-1961.

TABLE 23
Inshore Bait Landings by Area Pounds and Value 1973

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide*
Clam					
Freshwater	688,931	-----	-----	-----	688,931
Gaper	\$92,122	-----	-----	-----	\$92,122
Jackknife	-----	-----	-----	-----	67
Purple	-----	-----	31,505	11,881	\$19
Softshell	-----	-----	\$26,054	\$7,234	\$33,288
Carp	-----	-----	482	13,894	14,376
Crab	-----	-----	\$283	\$6,998	\$7,281
Sand	-----	-----	-----	-----	134
Shore	-----	-----	-----	-----	\$27
Crayfish	-----	-----	-----	-----	1,481
Mudsucker, longjaw	-----	-----	-----	-----	\$726
Mussel (bay and rock)	2,082	2,716	-----	23	6,431
Sculpin, staghorn	\$2,684	\$4,046	6,331	1	\$16,477
Shrimp	-----	135	\$16,428	\$5	\$16,477
Bay	-----	\$13	189	8	197
Brine	-----	\$233	\$965	\$155	\$1,120
Ghost	271	-----	-----	-----	\$1,120
Red	\$955	\$877	-----	-----	\$3,994
Total	752,460	4,315	121,015	39,235	2,357,827
	\$208,262	\$8,022	\$61,869	\$16,090	\$592,108

* Some figures are reported statewide only to avoid revealing the business of an individual in an area.

TABLE 24
Recorded Catch of Live Bait for Saltwater Sportfishing 1969-1973

Species	Thousands of pounds*				
	1969	1970	1971	1972	1973
Anchovy	10,627	12,210	12,774	11,700	12,432
Mackerel, jack	103	-----	9	5	120
Mackerel, Pacific	8	-----	1	-----	75
Sardine, adult	34	-----	-----	T	-----
Sardine, juvenile	-----	6	T	T	-----
Squid	9	-----	10	-----	66
Miscellaneous†	-----	4	-----	16	80
Total pounds	10,781	12,220	12,794	11,721	12,773
Number of Vessels‡	10	11	14	12	11

* Weights are estimated from voluntary records. They should be regarded as minimal because some fishermen do not supply catch information.

T Less than 500 pounds.

† Consists primarily of queenfish and white croaker.

‡ The number of live bait fishing vessels reported here should be considered minimal because some fishing operations utilize more than one vessel simultaneously or alternately, while others do not volunteer catch information at all.

TABLE 25
California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port, Month and Species, in Numbers of Fish—1973

	February			March			April			May			June			July		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat-----	0	0	a	0	0	a	0	0	a	0	0	a	0	107	a	53	50	0.4
Skiff-----	--	--	a	--	--	a	--	--	a	--	--	--	1,158	1,053	0.7	2,081	3,921	0.7
Eureka																		
Partyboat-----	0	0	a	0	0	a	0	0	a	122	219	a	320	573	1.3	502	900	a
Skiff-----	--	--	a	--	--	a	--	--	a	--	--	--	1,456	5,735	1.4	3,190	7,996	0.8
Fort Bragg																		
Partyboat-----	0	0	a	8	11	a	6	11	a	110	166	a	465	697	a	1,264	724	0.5
Skiff-----	--	--	a	--	--	a	--	--	a	--	--	--	990	585	0.5	2,143	1,809	0.3
San Francisco																		
Partyboat-----	4,038	6	0.9	10,143	385	1.4	14,235	385	1.6	7,848	367	1.0	11,336	37	1.2	22,560	21	1.6
Skiff-----	2,187	0	0.4	4,771	284	1.0	4,626	284	1.2	4,762	63	1.2	4,720	27	0.9	15,171	108	2.0
Monterey																		
Partyboat-----	69	0	a	142	0	a	295	0	a	256	0	a	262	0	a	503	0	a
Skiff-----	543	0	0.1	1,236	0	0.3	1,433	8	1.0	611	570	0.2	601	417	0.2	4,096	222	0.4
Statewide																		
Partyboat-----	4,107	6	0.9	10,293	396	1.4	14,536	396	1.6	8,336	752	1.0	12,383	1,414	1.2	24,882	1,695	1.5
Skiff-----	2,730	0	0.3	6,007	292	0.7	6,059	292	1.1	5,373	633	0.6	8,925	7,817	0.8	26,681	14,056	0.8

TABLE 25

California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port, Month and Species, in Numbers of Fish—1973—Continued

	August			September			October			November			December			Season		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City Partyboat.....	32	24	0.3	0	0	a	0	0	a	0	0	a	0	0	a	85	181	0.4
Skiff.....	807	1,098	0.4	38	60	0.1	--	--	a	--	--	a	--	--	a	4,082	6,132	0.6
Eureka Partyboat.....	273	492	a	57	103	a	1	4	a	0	0	a	0	0	a	1,275	2,291	1.3
Skiff.....	1,405	1,566	0.5	258	224	0.3	--	--	a	--	--	a	--	--	a	6,309	15,521	0.8
Fort Bragg Partyboat.....	58	0	0.1	4	0	a	1	0	a	0	0	a	0	0	a	1,916	1,612	0.5
Skiff.....	250	500	0.3	0	0	0.0	--	--	a	--	--	a	--	--	a	3,383	2,894	0.5
San Francisco Partyboat.....	18,239	102	1.3	11,784	64	1.3	9,267	8	1.3	4,757	0	1.9	0	0	a	114,207	1,074	1.3
Skiff.....	7,915	64	1.2	5,666	0	0.9	2,411	0	0.8	581	0	0.7	0	0	a	52,810	595	1.1
Monterey Partyboat.....	197	0	a	14	0	a	41	0	1.0	237	0	a	0	0	a	2,016	0	1.0
Skiff.....	1,010	27	0.3	519	28	0.2	1,105	69	0.3	716	0	0.9	0	0	a	11,870	1,341	0.3
Statewide Partyboat.....	18,769	618	1.3	11,859	167	1.3	9,310	12	1.3	4,994	0	1.9	0	0	a	119,499	5,158	1.3
Skiff.....	11,357	3,255	0.6	6,479	312	0.5	3,516	69	0.5	1,297	0	0.8	0	0	a	78,454	28,483	0.7

¹ Salmon per angler-day, species combined.

a No sampling.

TABLE 26
California Commercial Troll Salmon Landings by Port—Area, Month and Species, in Pounds¹ and Numbers—1973

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King-----	3,450	244	88,685	10,369	51,108	5,912	74,520	8,699	4,081	492	1,673	192	223,517	25,908
Silver-----	0	0	65,474	14,895	277,845	50,952	156,711	26,369	3,956	603	640	82	504,626	92,901
Pink-----	0	0	36	10	1,666	470	7,460	1,595	0	0	0	0	9,162	2,075
Eureka														
King-----	61,191	7,353	891,727	100,118	623,539	55,048	190,991	30,014	8,252	1,103	3,512	475	1,779,212	194,111
Silver-----	0	0	316,181	69,150	190,458	33,171	54,315	8,780	22,473	3,322	3,538	544	586,965	114,967
Pink-----	0	0	410	112	238	55	34,230	6,745	0	0	0	0	34,378	6,912
Fort Bragg														
King-----	22,472	2,323	149,989	18,182	812,737	74,387	690,492	73,700	36,511	3,854	16,004	1,808	1,728,205	174,254
Silver-----	0	0	83,164	17,397	587,335	88,500	112,348	16,923	6,065	769	1,154	134	790,666	123,723
Pink-----	0	0	18	6	30,739	7,205	12,659	2,493	0	0	0	0	43,416	9,704
San Francisco														
King-----	264,854	31,878	509,952	60,368	304,954	32,281	299,640	35,071	383,008	44,994	357,397	37,820	2,129,805	242,412
Silver-----	0	0	17,833	3,389	35,082	5,117	29,713	4,172	10,457	1,278	3,153	377	96,238	14,333
Pink-----	0	0	339	106	337	111	0	0	0	0	0	0	676	217
Monterey														
King-----	143,871	18,274	308,090	35,359	439,773	44,850	431,300	44,761	310,040	29,230	93,019	7,809	1,726,093	180,283
Silver-----	0	0	3,277	604	3,706	581	4,158	546	4,227	430	0	0	15,368	2,161
Pink-----	0	0	0	0	157	50	0	0	0	0	0	0	157	50
Statowide														
King-----	405,838	60,072	1,948,443	224,396	2,232,111	212,478	1,686,943	192,245	751,892	79,673	471,605	48,104	7,596,832	816,968
Silver-----	0	0	485,923	105,435	1,095,626	178,321	357,245	56,790	47,178	6,402	8,485	1,137	1,993,863	348,083
Pink-----	0	0	803	234	35,137	7,891	54,349	10,833	0	0	0	0	88,259	19,558

¹ Dressed, head on.

APPENDIX I Monthly Landings From Inland Waters During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Totals
LANDINGS													
Fish													
Blackfish, Sacramento	47,290	34,850	71,565	45,800	24,200	---	---	---	---	12,400	46,513	20,330	302,948
Carp	62,974	15,821	45,442	12,165	10,200	---	---	---	---	13,382	44,164	19,742	223,870
Lamprey	---	---	---	914	---	---	---	---	---	---	---	---	914
Hardhead	26,160	19,000	18,100	---	---	---	---	---	---	---	---	---	63,260
Hitch	2,200	---	---	---	---	---	---	---	---	---	---	---	2,200
Shad, American	738	---	80	---	---	---	---	---	---	---	---	---	818
Sucker	30	---	---	---	---	---	---	---	---	---	---	---	30
Crustacean													
Crayfish	747	495	163	40	14,089	48,457	33,479	1,299	1,771	1,661	642	354	103,197
Mollusk													
Snail, freshwater	100	---	---	---	---	---	---	---	---	---	---	---	100
Amphibia													
Frog	90	337	1,352	1,465	1,108	1,846	2,347	1,262	677	1,097	39	132	11,812
Total pounds	140,329	70,503	136,702	60,384	49,657	50,303	35,826	2,561	2,448	28,520	91,358	40,558	709,149

APPENDIX II

Value of Landings From Inland Waters by County During 1973

County and species	Pounds	Value	County and species	Pounds	Value
Alameda			San Diego		
Crayfish.....	3,913	\$2,639	Carp.....	3,026	\$536
Lamprey.....	914	350	County totals.....	3,026	\$536
Frog.....	11,047	7,065			
County totals.....	15,874	\$10,054	San Francisco		
Fresno			Shad, American.....	120	\$7
Crayfish.....	43	\$99	County totals.....	120	\$7
Frog.....	2	3			
County totals.....	45	\$102	San Joaquin		
Humboldt			Carp.....	6,263	\$948
Frog.....	187	\$131	Crayfish.....	496	156
Shad, American.....	698	35	Frog.....	131	92
County totals.....	885	\$166	Snail, freshwater.....	100	20
			County totals.....	6,990	\$1,216
Kern			Solano		
Carp.....	450	\$270	Carp.....	13,709	\$2,074
Hardhead.....	600	60	Crayfish.....	33,676	10,566
Sucker.....	30		County totals.....	47,385	\$12,640
County totals.....	1,080	\$330			
Lake			Contra Costa		
Blackfish, Sacramento.....	302,948	\$212,064	Carp.....	760	\$115
Carp.....	198,662	30,058	County totals.....	760	\$115
Hardhead.....	62,660	6,266			
Hitch.....	2,200	220	Yolo		
County totals.....	566,470	\$248,608	Crayfish.....	186	\$58
			Frog.....	406	284
Madera			County totals.....	592	\$342
Frog.....	39	\$55	Grand total	709,149	\$294,680
County totals.....	39	\$55			
Merced			Recap		
Carp.....	1,000	\$150	Blackfish, Sacramento.....	302,948	\$212,064
County totals.....	1,000	\$150	Carp.....	223,870	34,151
			Lamprey.....	914	350
Sacramento			Hardhead.....	63,260	6,326
Crayfish.....	64,883	\$20,350	Hitch.....	2,200	220
County totals.....	64,883	\$20,350	Shad, American.....	818	42
			Sucker.....	30	
			Frog.....	11,812	7,630
			Crayfish.....	103,197	33,877
			Snail, freshwater.....	100	20
			Grand total	709,149	\$294,680

APPENDIX III **KELP HARVEST IN TONS**

Year	Open Beds	Leased Beds	Total Tons
1916	134,537.00	----	134,537.00
1917	394,974.00	----	394,974.00
1918	395,098.00	----	395,098.00
1919	16,673.00	----	16,673.00
1920	25,464.00	----	25,464.00
*			
1931	----	260.00	260.00
1932	301.61	10,013.08	10,314.69
1933	52.75	21,568.65	21,621.40
1934	1,827.21	14,052.57	15,879.78
1935	----	30,601.83	30,601.83
1936	14,336.70	34,980.34	49,317.04
1937	9,612.70	34,340.65	43,953.35
1938	18,284.06	29,413.25	47,697.31
1939	25,546.30	31,189.70	56,736.00
1940	33,322.20	25,682.20	59,004.40
1941	36,103.00	19,614.00	55,717.00
1942	44,880.11	17,017.65	61,897.76
1943	19,547.44	28,410.86	47,958.30
1944	22,710.50	30,319.40	53,029.90
1945	37,541.30	21,639.90	59,181.20
1946	60,384.90	30,683.60	91,068.50
1947	46,028.80	28,207.80	74,236.60
1948	50,966.10	27,675.00	78,641.10
1949	56,076.00	27,270.00	83,346.00
1950	49,955.00	50,647.00	100,602.00
1951	30,318.00	84,442.00	114,760.00
1952	37,906.00	72,252.50	110,158.50
1953	37,172.50	89,476.50	126,649.00
1954	40,269.00	65,946.50	106,215.50
1955	38,992.00	85,071.00	124,063.00
1956	35,476.50	82,339.00	117,815.50
1957	32,810.75	61,396.50	94,207.25
1958	41,105.75	72,955.75	114,061.50
1959	42,289.65	47,309.45	89,599.10
1960	61,914.95	58,384.85	120,299.80
1961	71,952.70	57,303.30	129,256.00
1962	86,227.70	54,005.10	140,232.80
1963	57,517.00	63,514.80	121,031.80
1964	35,592.90	91,660.85	127,253.75
1965	33,464.10	101,664.90	135,129.00
1966	11,100.70	108,363.20	119,463.90
1967	9,331.00	122,164.00	131,495.00
1968	20,388.20	114,465.15	134,853.35
1969	10,028.70	121,210.50	131,239.20
1970	8,058.00	118,981.00	127,039.00
1971	19,476.00	136,083.00	155,559.00
1972	12,332.00	160,179.00	162,511.00
1973	24,539.00	128,541.00	153,080.00

* No data available 1921-1930.

